

42-879-1

UGI Development Company

390 Route 11
P.O. Box 224
Hunlock Creek, PA 18621-0224
(570) 830-1269

July 6, 2005

CERTIFIED MAIL 7002 0860 0000 1118 1768

Mrs. Rene McLaughlin
3 AP 2
United States Environmental Protection Agency
Region 3
1650 Arch Street
Philadelphia, PA 19103-2025

***RE: Hunlock Creek Energy Ventures
Hunlock Power Station
RATA Notification - Unit No. 4***

Dear Mrs. McLaughlin:

Hunlock Creek Energy Ventures is submitting the RATA Test results for Unit No. 4 (Combustion Turbine). The tests were completed on June 1, 2005.

If you should have any questions, please call me at (570) 830-1267.

Sincerely,



Jeffrey T. Steeber
Staff Engineer
Hunlock Power Station

RECEIVED
JUL 12 2005
Air Protection Division (3AP12)

JTS:chet

Enclosure



**UGI DEVELOPMENT COMPANY
HUNLOCK STATION
UNIT 4**

RELATIVE ACCURACY TEST AUDIT REPORT

**CATALYST AIR MANAGEMENT, INC.
REPORT NUMBER 124-027**

JUNE 27, 2005
Test Date: June 1, 2005

Prepared for
Mr. Jeff Steeber
UGI Development Company
Hunlock Station
Route 11, PO Box 224
Hunlock Creek, PA 18621



STATEMENT OF VALIDITY

UGI Development Company – Hunlock Station Unit 4
Catalyst Report 124-027
June 27, 2005

To the extent practical, information and data provided in this test report has been verified as true and correct.

A handwritten signature in black ink, appearing to read "Michael J. Taylor".

Michael J. Taylor
President - Catalyst Air Management, Inc.

A handwritten signature in black ink, appearing to read "Jeff Steeber".

Jeff Steeber
UGI Development Company

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PROJECT FACT SHEET

NAME OF SOURCE OWNER: UGI Development Company

SOURCE IDENTIFICATION: Hunlock Station Unit 4

LOCATION OF SOURCE: Route 11, PO Box 224
Hunlock Creek, PA 18621

TYPE OF OPERATION: Combustion Turbine Generating Unit

TYPES OF TESTS PERFORMED: Oxygen/Carbon Dioxide-EPA Method 3A
Nitrogen Oxide-EPA Method 7E

SOURCE ANALYZERS: TECO 42CHL NOx - 42CHL-65854-350
Sevomex 1440C O₂ - 0142C/1355

TEST COMPANY: Catalyst Air Management, Inc.
10 Mill Road
Morgantown, PA 19543

SITE SUPERVISOR: Jeff Ferguson - Principal

TEST PERSONNEL: Bob Righter - Technician

TEST DATES: June 1, 2005

OWNERS REPRESENTATIVE: Jeff Steeber

TEST OBSERVER:

1.0 Introduction

Catalyst Air Management, Inc. (Catalyst) was contracted by UGI Development Company to determine the relative accuracy of the Continuous Emissions Monitoring Systems (CEMS) at Hunlock Station, Unit 4.

The sampling program was conducted June 1, 2005. The RATA was performed by Messers. Jeff Ferguson and Bob Righter of Catalyst, with the assistance of personnel assigned by UGI. Mr. Jeff Steeber of UGI coordinated plant operation during the testing.

2.0 Summary of Test Results

A summary of test results developed by this source sampling program are presented in Tables 1 through 5. The summary tables are presented as follows:

| <u>Table</u> | <u>Description</u> | <u>Page</u> |
|--------------|---|-------------|
| 1 | Relative Accuracy Summary | 1 |
| 2 | NOx (ppm @ 15% O ₂) Relative Accuracy | 5 |
| 3 | NOx (lb/mmBtu) Relative Accuracy | 6 |
| 4 | NOx (lb/hr) Relative Accuracy | 7 |
| 5 | O ₂ (%) Relative Accuracy | 8 |

TABLE 1
Relative Accuracy Summary
Hunlock Station
Unit 4

| PARAMETERS | RELATIVE ACCURACY | PERFORMANCE SPECIFICATION | BIAS |
|-------------------|--------------------------|----------------------------------|-------------|
| NOx ppm | 3.33 % | ≤ 20 % ¹ | NA |
| NOx lb/mmBtu | 3.17 % | ≤ 10 % ² | 1.000 |
| NOx lb/hr | 3.16 % | ≤ 20 % ¹ | NA |
| O ₂ % | 0.27 % | ≤ 20 % ¹ | NA |

1 40 CFR 60, Appendix B, Performance Specification 2 and 3

2 40 CFR 75, Appendix A

3.0 Results of Testing

The results from the RATA are tabulated in Appendix 1 and 3. They indicate that the CEMS meet the acceptable criteria for annual testing. The NOx system passed the bias test and a bias adjustment factor of 1.000 was assigned.

4.0 Description Of Combustion Units

The Hunlock Station, CT, is a GE LM6000PC natural gas fired turbine operating in the simple cycle mode. The turbine is equipped with water injection in the combustion zone for NOx control. A process diagram is included in the figures section.

The stack is 75 feet high, with an inside diameter of 9.0 feet. The sampling location is approximately 10 feet upstream (1.1 diameters) from the stack exit and 50 feet downstream (5.6 diameters) of the inlet duct.

5.0 Description of CEMS

The CEMS is a heated extractive system that measures NOx and O₂ concentrations at the sampling location. The CEMS analyzers includes a Thermo Environmental Model 42CHL NOx analyzer and a Servomex Model 1440C O₂ analyzer. The recording and reporting requirements are performed by a computerized data acquisition and handing system.

CEMS

- (1) Thermo Environmental 42CHL NOx – Serial No. 42CHL-65854-350
- (1) Servomex 1440C O₂ – Serial No. 0142C/1355

The analyzers measure on a dry basis. The data acquisition and handling system utilizes a Fo factor of 8710 scf/mmBtu to calculate NOx emissions in lbs/mmBtu.

6.0 Sampling Program Procedures

The following test methods were utilized during the test program:

| | |
|---------------|---|
| EPA Method 3A | Gas Analysis for CO ₂ , O ₂ , Excess Air and Dry Molecular Weight (Instrumental Analyzer Method) |
| EPA Method 7E | Determination of Nitrogen Oxides Emissions from Stationary Sources (Instrumental Analyzer Method) |
| EPA Method 19 | Determination of Sulfur Dioxide Removal Efficiency and Particulate Matter, Sulfur Dioxide, and Nitrogen Oxides Emission Rates |

6.1 NOx and O₂

Catalyst conducted ten (10) NOx and O₂ relative accuracy runs using EPA Methods 3A and 7E. These runs were twenty-one (21) minutes in duration. The NOx concentration was converted to an emission rate (lb/mmBtu) by utilizing the F-factor for natural gas of 8710. The NOx lb/hr emission rate was calculate from the heat input value (mmBtu/hr) for each run.

A sample was continuously extracted and introduced into a Thermo Environmental Model 10, Chemiluminescent NOx analyzer and Servomex 1400 O₂/CO₂ analyzer for determination of gas concentrations. The sample was extracted through a heated stainless steel probe, heated sample line and sample conditioner to dry the sample before it enters the analyzers. A sample flow control system was used to control the flow into the analyzers. The analyzers were calibrated prior to starting the testing with EPA Protocol 1, calibration gases. A system bias check was performed before each run by introducing the zero and upscale gas at the back end of the sample probe. The system bias check was repeated at the end of each test run to determine the analyzer zero and calibration drift.

The NOx analyzer span was 0-25 ppm. The calibration gases that were utilized were zero, 40-60% (13.00 ppm) and 80-100% (22.74 ppm) of span. The O₂/CO₂ analyzer spans were 0-25% and 0-20%, respectively. The O₂ calibration gases utilized were 11.92% and 22.43%. The CO₂ calibration gases were 9.997% and 17.83%.

Reference Method Analyzers:

| <u>Manufacturer</u> | <u>Model</u> | <u>Pollutant</u> | <u>Span</u> |
|---------------------|--------------|---------------------------------|-------------|
| TECO | 10A | NOx | 0-25 ppm |
| Servomex | 1400B | CO ₂ /O ₂ | 0-20%/0-25% |

All the procedures used for the test program were performed in accordance with the Code of Federal Regulations, Title 40, Part 60, Appendix A, and Appendix B, Performance Specifications 2, 3 and 6, and Part 75.

7.0 Operating Conditions

Operating conditions were monitored throughout the duration of the sampling program by UGI personnel. The unit was operating at approximately 47 MW (gross).

8.0 Quality Assurance Procedures

The quality assurance procedures followed during the testing activities followed guidelines set forth by the previous mentioned methods and the EPA Quality Assurance Handbook for Source Sampling. The specific procedures for this test program are listed below.

8.1 Instrumental Methods

Analyzer calibrations, system bias check and drift checks were completed before and after each sample run utilizing EPA Protocol 1 calibration gases.

The NOx analyzer NO₂ to NO converter efficiency is determined in accordance with Section 5.6 of Method 20.

The analyzer interference responses were determined in accordance with Section 5.4 of Method 20 and Section 7.2 through 7.6 of Method 6C.

APPENDIX 1
CEMS RELATIVE ACCURACY

TABLE 2
NO_x (ppm @ 15% O₂) Relative Accuracy

CATALYST AIR MANAGEMENT, Inc.
RELATIVE ACCURACY OF NO_x MONITOR

| SUMMARY OF DATA | | | | | | | | | | Monitor: NO _x (@ 15% O ₂) | | | |
|-----------------------------|----------|--------|--------|-------|-------|-----------|----------|------------|----------|--|--------|--------|----|
| | | | | | | | | | | OPERATING LEVEL: | | | |
| | | | | | | | | | | GROSS UNIT LOAD: | 47 | | |
| | | | | | | | | | | START: | 12:10 | | |
| | | | | | | | | | | END: | 16:29 | | |
| CLIENT: UGI | | | | | | | | | | DATE: | 6/1/05 | | |
| PLANT: Hunlock | | | | | | | | | | Normal | | | |
| UNIT: 4 | | | | | | | | | | MW | | | |
| TEST: 7E | | | | | | | | | | | | | |
| Monitor Serial #: 564335012 | | | | | | | | | | | | | |
| RUN | RUN USED | DATE | DATE | TIME | TIME | REFERENCE | Hunklock | Difference | DURATION | OF RUN | (Min) | | |
| | Y/N | START | END | START | END | METHOD | CEM | SQUARED | DIFF | | | % DIFF | |
| 1 | 1 | 6/1/05 | 6/1/05 | 12:10 | 12:31 | 21.88 | 21.74 | 0.14 | 0.018 | | | 0.62 | 21 |
| 2 | 1 | 6/1/05 | 6/1/05 | 12:42 | 13:03 | 21.97 | 21.43 | 0.54 | 0.287 | | | 2.44 | 21 |
| 3 | 1 | 6/1/05 | 6/1/05 | 13:13 | 13:34 | 21.88 | 22.45 | -0.57 | 0.330 | | | -2.63 | 21 |
| 4 | 1 | 6/1/05 | 6/1/05 | 13:41 | 14:02 | 22.59 | 22.42 | 0.17 | 0.028 | | | 0.73 | 21 |
| 5 | 1 | 6/1/05 | 6/1/05 | 14:10 | 14:31 | 22.31 | 21.78 | 0.53 | 0.280 | | | 2.37 | 21 |
| 6 | 1 | 6/1/05 | 6/1/05 | 14:40 | 15:01 | 22.31 | 21.73 | 0.58 | 0.336 | | | 2.60 | 21 |
| 7 | 1 | 6/1/05 | 6/1/05 | 15:09 | 15:30 | 22.59 | 22.12 | 0.47 | 0.217 | | | 2.06 | 21 |
| 8 | 1 | 6/1/05 | 6/1/05 | 15:39 | 16:00 | 22.86 | 22.21 | 0.65 | 0.426 | | | 2.85 | 21 |
| 9 | 1 | 6/1/05 | 6/1/05 | 16:08 | 16:29 | 22.03 | 20.98 | 1.05 | 1.108 | | | 4.78 | 21 |
| 10 | 0 | 6/1/05 | 6/1/05 | 16:37 | 16:58 | 22.03 | 20.78 | 1.25 | 1.570 | | | 5.69 | 21 |
| 11 | 0 | | | | | | | | | | | | |
| 12 | 0 | | | | | | | | | | | | |

| SUMMARY STATISTICS | | | |
|---------------------|--------|---------|-------|
| Runs Used | 9 | T-Value | 2.306 |
| Mean RM | 22.267 | CC | 0.348 |
| Mean CEM | 21.873 | BAF | NA |
| Mean Diff. | 0.394 | SDEV | 0.452 |
| RELATIVE ACCURACY = | | | 3.33% |

TABLE 3
NO_x (lb/mmBtu) Relative Accuracy

CATALYST AIR MANAGEMENT, Inc.
RELATIVE ACCURACY OF NO_x MONITOR
SUMMARY OF DATA

Monitor: NO_x

CLIENT: UGI
 PLANT: Hunlock
 UNIT: 4
 TEST: 7E
 Monitor Serial #: 564335012

DATE: 6/1/05
 OPERATING LEVEL: Normal
 GROSS UNIT LOAD: 47 MW
 START: 12:10
 END: 16:29

| RUN | RUN USED | DATE | TIME | REFERENCE | Hunlock | Difference | Difference | % DIFF |
|-----|----------|--------|-------|-----------|---------|------------|------------|--------|
| | Y/N | START | END | METHOD | CEM | (REF-CEM) | SQUARED | |
| 1 | 1 | 6/1/05 | 12:10 | 12:31 | 0.081 | 0.080 | 0.001 | 1.23 |
| 2 | 1 | 6/1/05 | 12:42 | 13:03 | 0.081 | 0.079 | 0.002 | 2.47 |
| 3 | 1 | 6/1/05 | 13:13 | 13:34 | 0.081 | 0.083 | -0.002 | -2.47 |
| 4 | 1 | 6/1/05 | 13:41 | 14:02 | 0.083 | 0.083 | 0.000 | 0.00 |
| 5 | 1 | 6/1/05 | 14:10 | 14:31 | 0.082 | 0.080 | 0.002 | 2.44 |
| 6 | 1 | 6/1/05 | 14:40 | 15:01 | 0.082 | 0.080 | 0.002 | 2.44 |
| 7 | 1 | 6/1/05 | 15:09 | 15:30 | 0.083 | 0.082 | 0.001 | 1.20 |
| 8 | 1 | 6/1/05 | 15:39 | 16:00 | 0.084 | 0.082 | 0.002 | 2.38 |
| 9 | 1 | 6/1/05 | 16:08 | 16:29 | 0.081 | 0.077 | 0.004 | 4.94 |
| 10 | 0 | 6/1/05 | 16:37 | 16:58 | 0.081 | 0.077 | 0.004 | 4.94 |
| 11 | 0 | | | | | | | |
| 12 | 0 | | | | | | | |

SUMMARY STATISTICS

| | | | |
|------------|-------|---------|-------|
| Runs Used | 9 | T-Value | 2.306 |
| Mean RM | 0.082 | CC | 0.001 |
| Mean CEM | 0.081 | BAF | 1.000 |
| Mean Diff. | 0.001 | SDEV | 0.002 |

RELATIVE ACCURACY = **3.17%**

TABLE 4
NO_x (lb/hr) Relative Accuracy

CATALYST AIR MANAGEMENT, Inc.
RELATIVE ACCURACY OF NO_x MONITOR
SUMMARY OF DATA

Monitor: NO_x

CLIENT: UGI

PLANT: Hunlock

UNIT: 4

TEST: 7E

Monitor Serial #: 564335012

DATE: 6/1/05

Normal

GROSS

UNIT LOAD:

47

MW

OPERATING LEVEL:

7E

START:

12:10

END:

16:29

| RUN | RUN USED Y/N | DATE START | DATE END | TIME START | TIME END | REFERENCE METHOD | Hunlock CEM | Difference (REF-CEM) | Difference Squared | % DIFF | DURATION OF RUN (Min) |
|-----|-----------------|---------------|-------------|---------------|-------------|---------------------|----------------|-------------------------|-----------------------|-----------|-----------------------------|
| 1 | 1 | 6/1/05 | 6/1/05 | 12:10 | 12:31 | 35.72 | 35.23 | 0.491 | 0.241 | 1.37 | 21 |
| 2 | 1 | 6/1/05 | 6/1/05 | 12:42 | 13:03 | 35.72 | 34.86 | 0.861 | 0.741 | 2.41 | 21 |
| 3 | 1 | 6/1/05 | 6/1/05 | 13:13 | 13:34 | 35.64 | 36.41 | -0.770 | 0.593 | -2.16 | 21 |
| 4 | 1 | 6/1/05 | 6/1/05 | 13:41 | 14:02 | 36.35 | 36.23 | 0.124 | 0.015 | 0.34 | 21 |
| 5 | 1 | 6/1/05 | 6/1/05 | 14:10 | 14:31 | 35.83 | 35.03 | 0.804 | 0.646 | 2.24 | 21 |
| 6 | 1 | 6/1/05 | 6/1/05 | 14:40 | 15:01 | 35.92 | 35.07 | 0.846 | 0.716 | 2.36 | 21 |
| 7 | 1 | 6/1/05 | 6/1/05 | 15:09 | 15:30 | 36.35 | 35.75 | 0.604 | 0.365 | 1.66 | 21 |
| 8 | 1 | 6/1/05 | 6/1/05 | 15:39 | 16:00 | 37.04 | 36.05 | 0.994 | 0.988 | 2.68 | 21 |
| 9 | 1 | 6/1/05 | 6/1/05 | 16:08 | 16:29 | 35.80 | 34.13 | 1.672 | 2.796 | 4.67 | 21 |
| 10 | 0 | 6/1/05 | 6/1/05 | 16:37 | 16:58 | 35.40 | 33.45 | 1.947 | 3.791 | 5.50 | 21 |
| 11 | 0 | | | | | | | | | | |
| 12 | 0 | | | | | | | | | | |

| SUMMARY STATISTICS | | | | RELATIVE ACCURACY = 3.16% | |
|--------------------|--------|---------|-------|---|--|
| Runs Used | 9 | T-Value | 2.306 | | |
| Mean RM | 36.043 | CC | 0.515 | | |
| Mean CEM | 35.418 | BAF | NA | | |
| Mean Diff. | 0.625 | SDEV | 0.669 | | |

TABLE 5
 O_2 (%) Relative Accuracy

| CATALYST AIR MANAGEMENT, Inc. | | | | | | | Monitor: O2 | | | | | | | DATE: 6/1/05 | | | | | | | |
|---------------------------------|----------|--------|--------|-----------|---------|------------|-----------------------------|----------|-------|-------|--------|-----------|---------|------------------------|----------|----------|--|--|--|--|--|
| RELATIVE ACCURACY OF CO MONITOR | | | | | | | OPERATING LEVEL: Normal | | | | | | | GROSS UNIT LOAD: 47 MW | | | | | | | |
| SUMMARY OF DATA | | | | | | | TEST: 3A | | | | | | | START: 12:10 | | | | | | | |
| CLIENT: UGI | | | | | | | Monitor Serial #: 564335012 | | | | | | | END: 16:29 | | | | | | | |
| RUN | RUN USED | DATE | TIME | REFERENCE | Hunlock | Difference | RUN | RUN USED | DATE | TIME | TIME | REFERENCE | Hunlock | Difference | DURATION | % OF RUN | | | | | |
| | Y/N | START | END | CEM | CEM | SQUARED | | | START | END | METHOD | CEM | CEM | SQUARED | OF RUN | | | | | | |
| 1 | 1 | 6/1/05 | 6/1/05 | 12:10 | 12:31 | 14.4 | 14.46 | -0.060 | 0.004 | -0.42 | 21 | | | | | | | | | | |
| 2 | 1 | 6/1/05 | 6/1/05 | 12:42 | 13:03 | 14.4 | 14.45 | -0.050 | 0.002 | -0.35 | 21 | | | | | | | | | | |
| 3 | 0 | 6/1/05 | 6/1/05 | 13:13 | 13:34 | 14.4 | 14.46 | -0.060 | 0.004 | -0.42 | 21 | | | | | | | | | | |
| 4 | 1 | 6/1/05 | 6/1/05 | 13:41 | 14:02 | 14.5 | 14.47 | 0.030 | 0.001 | 0.21 | 21 | | | | | | | | | | |
| 5 | 1 | 6/1/05 | 6/1/05 | 14:10 | 14:31 | 14.5 | 14.47 | 0.030 | 0.001 | 0.21 | 21 | | | | | | | | | | |
| 6 | 1 | 6/1/05 | 6/1/05 | 14:40 | 15:01 | 14.5 | 14.47 | 0.030 | 0.001 | 0.21 | 21 | | | | | | | | | | |
| 7 | 1 | 6/1/05 | 6/1/05 | 15:09 | 15:30 | 14.5 | 14.48 | 0.020 | 0.000 | 0.14 | 21 | | | | | | | | | | |
| 8 | 1 | 6/1/05 | 6/1/05 | 15:39 | 16:00 | 14.5 | 14.48 | 0.020 | 0.000 | 0.14 | 21 | | | | | | | | | | |
| 9 | 1 | 6/1/05 | 6/1/05 | 16:08 | 16:29 | 14.5 | 14.46 | 0.040 | 0.002 | 0.28 | 21 | | | | | | | | | | |
| 10 | 1 | 6/1/05 | 6/1/05 | 16:37 | 16:58 | 14.5 | 14.47 | 0.030 | 0.001 | 0.21 | 21 | | | | | | | | | | |
| 11 | 0 | | | | | | | | | | | | | | | | | | | | |
| 12 | 0 | | | | | | | | | | | | | | | | | | | | |

SUMMARY STATISTICS

| | | | |
|---------------------|--------|---------|-------|
| Runs Used | 9 | T-Value | 2.306 |
| Mean RM | 12.867 | CC | 0.028 |
| Mean CEM | 12.860 | BAF | NA |
| Mean Diff. | 0.007 | SDEV | 0.037 |
| RELATIVE ACCURACY = | | | 0.27% |

APPENDIX 2
PLANT DATA

1

Run 1

GE KVB-Enertec NetDAHSC
 Average Values Report
 Version 46.0
 Generated: 6/1/05 12:32

Company: Hunlock Creek Energy Ventures
 Plant: Hunlock
 City/St:
 Source: unit4

Period Start: 6/1/05 12:10
 Period End: 6/1/05 12:31
 Validation Type: 1/1 min
 Averaging Period: 1 min
 Type: Block Avg

| Period Start | Heat Input mmBtu | MEGA WATT mw | NOX ppm | NOX PPMC PPMC | NOX#MMBTU #/M | NOx Lb Hr #/H | O2d % |
|----------------|---------------------|-----------------|------------|------------------|------------------|------------------|----------|
| 6/1/05 12:10 | 441 | 46.9 | 23.89 | 21.90 | 0.081 | 35.72 | 14.47 |
| 6/1/05 12:11 | 441 | 47.0 | 23.82 | 21.84 | 0.080 | 35.28 | 14.47 |
| 6/1/05 12:12 | 441 | 47.0 | 23.76 | 21.78 | 0.080 | 35.28 | 14.46 |
| 6/1/05 12:13 | 441 | 47.0 | 23.58 | 21.60 | 0.080 | 35.28 | 14.46 |
| 6/1/05 12:14 | 441 | 47.0 | 23.35 | 21.39 | 0.079 | 34.84 | 14.46 |
| 6/1/05 12:15 | 440 | 47.0 | 23.45 | 21.49 | 0.079 | 34.76 | 14.46 |
| 6/1/05 12:16 | 441 | 47.0 | 23.59 | 21.61 | 0.080 | 35.28 | 14.46 |
| 6/1/05 12:17 | 441 | 47.0 | 23.66 | 21.68 | 0.080 | 35.28 | 14.46 |
| 6/1/05 12:18 | 440 | 46.9 | 23.73 | 21.74 | 0.080 | 35.20 | 14.46 |
| 6/1/05 12:19 | 440 | 46.8 | 23.88 | 21.90 | 0.080 | 35.20 | 14.47 |
| 6/1/05 12:20 | 441 | 46.9 | 23.83 | 21.85 | 0.080 | 35.28 | 14.47 |
| 6/1/05 12:21 | 441 | 46.9 | 23.61 | 21.63 | 0.080 | 35.28 | 14.46 |
| 6/1/05 12:22 | 441 | 46.9 | 23.80 | 21.81 | 0.080 | 35.28 | 14.46 |
| 6/1/05 12:23 | 440 | 46.9 | 23.81 | 21.82 | 0.080 | 35.20 | 14.46 |
| 6/1/05 12:24 | 440 | 46.9 | 23.85 | 21.85 | 0.080 | 35.20 | 14.46 |
| 6/1/05 12:25 | 440 | 46.9 | 23.84 | 21.84 | 0.080 | 35.20 | 14.46 |
| 6/1/05 12:26 | 441 | 46.9 | 23.84 | 21.85 | 0.080 | 35.28 | 14.46 |
| 6/1/05 12:27 | 441 | 46.9 | 23.74 | 21.75 | 0.080 | 35.28 | 14.46 |
| 6/1/05 12:28 | 441 | 46.9 | 23.73 | 21.74 | 0.080 | 35.28 | 14.46 |
| 6/1/05 12:29 | 440 | 46.9 | 23.63 | 21.65 | 0.080 | 35.20 | 14.46 |
| 6/1/05 12:30 | 440 | 46.9 | 23.73 | 21.75 | 0.080 | 35.20 | 14.46 |
| 6/1/05 12:31 | 440 | 46.8 | 23.75 | 21.76 | 0.080 | 35.20 | 14.46 |
| Final Average* | 441 | 46.9 | 23.72 | 21.74 | 0.080 | 35.23 | 14.46 |
| Maximum* | 441 | 47.0 | 23.89 | 21.90 | 0.081 | 35.72 | 14.47 |
| Minimum* | 440 | 46.8 | 23.35 | 21.39 | 0.079 | 34.76 | 14.46 |

*Does not include Invalid Averaging Periods ("N/A")

1

GE KVB-Enertec NetDAHSC©
 Average Values Report
 Version 46.0
 Generated: 6/1/05 13:05

Company: Hunlock Creek Energy Ventures
 Plant: Hunlock
 City/St:
 Source: unit4

Period Start: 6/1/05 12:42
 Period End: 6/1/05 13:03
 Validation Type: 1/1 min
 Averaging Period: 1 min
 Type: Block Avg

| Period Start | Heat Input mmBtu | MEGA WATT mw | NOX ppm | NOX PPMC PPMC | NOX#MMBTU #/M | NOx Lb Hr #/H | O2d % |
|----------------|---------------------|-----------------|------------|------------------|------------------|------------------|----------|
| 6/1/05 12:42 | 440 | 46.9 | 23.61 | 21.63 | 0.080 | 35.20 | 14.46 |
| 6/1/05 12:43 | 441 | 47.0 | 23.67 | 21.68 | 0.080 | 35.28 | 14.46 |
| 6/1/05 12:44 | 441 | 47.0 | 23.38 | 21.40 | 0.079 | 34.84 | 14.45 |
| 6/1/05 12:45 | 441 | 47.0 | 23.24 | 21.26 | 0.078 | 34.40 | 14.45 |
| 6/1/05 12:46 | 441 | 47.0 | 23.29 | 21.29 | 0.079 | 34.84 | 14.45 |
| 6/1/05 12:47 | 440 | 47.0 | 23.38 | 21.37 | 0.079 | 34.76 | 14.45 |
| 6/1/05 12:48 | 441 | 47.0 | 23.33 | 21.34 | 0.079 | 34.84 | 14.45 |
| 6/1/05 12:49 | 441 | 46.9 | 23.36 | 21.37 | 0.079 | 34.84 | 14.45 |
| 6/1/05 12:50 | 441 | 47.0 | 23.48 | 21.48 | 0.079 | 34.84 | 14.45 |
| 6/1/05 12:51 | 441 | 47.0 | 23.36 | 21.38 | 0.079 | 34.84 | 14.45 |
| 6/1/05 12:52 | 441 | 47.0 | 23.39 | 21.42 | 0.079 | 34.84 | 14.46 |
| 6/1/05 12:53 | 441 | 46.9 | 23.34 | 21.35 | 0.079 | 34.84 | 14.45 |
| 6/1/05 12:54 | 441 | 46.9 | 23.52 | 21.55 | 0.080 | 35.28 | 14.46 |
| 6/1/05 12:55 | 440 | 46.9 | 23.60 | 21.62 | 0.080 | 35.20 | 14.46 |
| 6/1/05 12:56 | 440 | 46.9 | 23.68 | 21.70 | 0.080 | 35.20 | 14.46 |
| 6/1/05 12:57 | 441 | 47.0 | 23.65 | 21.67 | 0.080 | 35.28 | 14.46 |
| 6/1/05 12:58 | 441 | 47.0 | 23.40 | 21.43 | 0.079 | 34.84 | 14.46 |
| 6/1/05 12:59 | 440 | 47.1 | 23.31 | 21.34 | 0.079 | 34.76 | 14.45 |
| 6/1/05 13:00 | 441 | 47.0 | 23.40 | 21.42 | 0.079 | 34.84 | 14.46 |
| 6/1/05 13:01 | 441 | 47.0 | 23.30 | 21.34 | 0.078 | 34.40 | 14.46 |
| 6/1/05 13:02 | 441 | 47.0 | 23.21 | 21.24 | 0.078 | 34.40 | 14.45 |
| 6/1/05 13:03 | 441 | 47.1 | 23.03 | 21.07 | 0.078 | 34.40 | 14.45 |
| Final Average* | 441 | 47.0 | 23.41 | 21.43 | 0.079 | 34.86 | 14.45 |
| Maximum* | 441 | 47.1 | 23.68 | 21.70 | 0.080 | 35.28 | 14.46 |
| Minimum* | 440 | 46.9 | 23.03 | 21.07 | 0.078 | 34.40 | 14.45 |

*Does not include Invalid Averaging Periods ("N/A")

1

GE KVB-Enertec NetDAHSC
 Average Values Report
 Version 46.0
 Generated: 6/1/05 13:36

Company: Hunlock Creek Energy Ventures
 Plant: Hunlock
 City/St:
 Source: unit4

Period Start: 6/1/05 13:13
 Period End: 6/1/05 13:35
 Validation Type: 1/1 min
 Averaging Period: 1 min
 Type: Block Avg

| Period Start | Heat Input mmBtu | MEGA WATT mw | NOX ppm | NOX PPMC PPMC | NOX#MMBTU #/M | NOx Lb Hr #/H | O2d % |
|----------------|---------------------|-----------------|------------|------------------|------------------|------------------|----------|
| 6/1/05 13:13 | 440 | 47.0 | 24.32 | 22.27 | 0.082 | 36.08 | 14.46 |
| 6/1/05 13:14 | 439 | 46.9 | 24.51 | 22.46 | 0.083 | 36.44 | 14.46 |
| 6/1/05 13:15 | 440 | 46.9 | 24.59 | 22.52 | 0.083 | 36.52 | 14.46 |
| 6/1/05 13:16 | 440 | 46.9 | 24.56 | 22.50 | 0.083 | 36.52 | 14.46 |
| 6/1/05 13:17 | 441 | 47.0 | 24.40 | 22.34 | 0.083 | 36.60 | 14.46 |
| 6/1/05 13:18 | 440 | 47.0 | 24.46 | 22.41 | 0.083 | 36.52 | 14.46 |
| 6/1/05 13:19 | 440 | 47.0 | 24.53 | 22.47 | 0.083 | 36.52 | 14.46 |
| 6/1/05 13:20 | 440 | 46.9 | 24.52 | 22.46 | 0.083 | 36.52 | 14.46 |
| 6/1/05 13:21 | 440 | 47.0 | 24.43 | 22.38 | 0.083 | 36.52 | 14.46 |
| 6/1/05 13:22 | 440 | 47.0 | 24.36 | 22.31 | 0.082 | 36.08 | 14.46 |
| 6/1/05 13:23 | 441 | 46.9 | 24.32 | 22.28 | 0.082 | 36.16 | 14.46 |
| 6/1/05 13:24 | 440 | 46.9 | 24.22 | 22.18 | 0.082 | 36.08 | 14.46 |
| 6/1/05 13:25 | 440 | 47.0 | 24.34 | 22.30 | 0.082 | 36.08 | 14.46 |
| 6/1/05 13:26 | 440 | 46.9 | 24.47 | 22.41 | 0.083 | 36.52 | 14.46 |
| 6/1/05 13:27 | 439 | 46.9 | 24.65 | 22.58 | 0.083 | 36.44 | 14.46 |
| 6/1/05 13:28 | 440 | 46.9 | 24.73 | 22.66 | 0.083 | 36.52 | 14.46 |
| 6/1/05 13:29 | 440 | 46.9 | 24.63 | 22.56 | 0.083 | 36.52 | 14.46 |
| 6/1/05 13:30 | 439 | 46.9 | 24.64 | 22.57 | 0.083 | 36.44 | 14.46 |
| 6/1/05 13:31 | 439 | 46.9 | 24.59 | 22.52 | 0.083 | 36.44 | 14.46 |
| 6/1/05 13:32 | 440 | 47.0 | 24.60 | 22.53 | 0.083 | 36.52 | 14.46 |
| 6/1/05 13:33 | 439 | 46.8 | 24.55 | 22.49 | 0.083 | 36.44 | 14.46 |
| 6/1/05 13:34 | 439 | 46.9 | 24.67 | 22.60 | 0.083 | 36.44 | 14.46 |
| 6/1/05 13:35 | 439 | 46.9 | 24.56 | 22.49 | 0.083 | 36.44 | 14.46 |
| Final Average* | 440 | 46.9 | 24.51 | 22.45 | 0.083 | 36.41 | 14.46 |
| Maximum* | 441 | 47.0 | 24.73 | 22.66 | 0.083 | 36.60 | 14.46 |
| Minimum* | 439 | 46.8 | 24.22 | 22.18 | 0.082 | 36.08 | 14.46 |

*Does not include Invalid Averaging Periods ("N/A")

1

GE KVB-Enertec NetDAHSC
 Average Values Report
 Version 46.0
 Generated: 6/1/05 14:07

Company: Hunlock Creek Energy Ventures
 Plant: Hunlock
 City/St:
 Source: unit4

Period Start: 6/1/05 13:41
 Period End: 6/1/05 14:02
 Validation Type: 1/1 min
 Averaging Period: 1 min
 Type: Block Avg

| Period Start | Heat Input mmBtu | MEGA WATT mw | NOX ppm | NOX PPMC PPMC | NOX#MMBTU #/M | NOx Lb Hr #/H | O2d % |
|----------------|---------------------|-----------------|------------|------------------|------------------|------------------|----------|
| 6/1/05 13:41 | 440 | 46.9 | 24.60 | 22.53 | 0.083 | 36.52 | 14.46 |
| 6/1/05 13:42 | 439 | 47.0 | 24.44 | 22.39 | 0.083 | 36.44 | 14.46 |
| 6/1/05 13:43 | 440 | 47.0 | 24.34 | 22.30 | 0.082 | 36.08 | 14.46 |
| 6/1/05 13:44 | 439 | 46.9 | 24.46 | 22.40 | 0.083 | 36.44 | 14.46 |
| 6/1/05 13:45 | 439 | 46.9 | 24.69 | 22.61 | 0.083 | 36.44 | 14.46 |
| 6/1/05 13:46 | 439 | 46.8 | 24.72 | 22.65 | 0.083 | 36.44 | 14.46 |
| 6/1/05 13:47 | 438 | 46.8 | 24.84 | 22.76 | 0.084 | 36.79 | 14.46 |
| 6/1/05 13:48 | 438 | 46.6 | 25.04 | 22.97 | 0.085 | 37.23 | 14.47 |
| 6/1/05 13:49 | 438 | 46.7 | 24.95 | 22.86 | 0.084 | 36.79 | 14.46 |
| 6/1/05 13:50 | 438 | 46.8 | 24.95 | 22.86 | 0.084 | 36.79 | 14.46 |
| 6/1/05 13:51 | 438 | 46.7 | 24.81 | 22.73 | 0.084 | 36.79 | 14.46 |
| 6/1/05 13:52 | 438 | 46.7 | 24.91 | 22.83 | 0.084 | 36.79 | 14.46 |
| 6/1/05 13:53 | 438 | 46.7 | 24.84 | 22.75 | 0.084 | 36.79 | 14.46 |
| 6/1/05 13:54 | 437 | 46.7 | 24.95 | 22.89 | 0.084 | 36.71 | 14.47 |
| 6/1/05 13:55 | 438 | 46.6 | 25.10 | 23.11 | 0.085 | 37.23 | 14.49 |
| 6/1/05 13:56 | 438 | 46.6 | 23.81 | 21.83 | 0.081 | 35.48 | 14.47 |
| 6/1/05 13:57 | 438 | 46.6 | 23.66 | 21.71 | 0.080 | 35.04 | 14.47 |
| 6/1/05 13:58 | 438 | 46.6 | 23.66 | 21.69 | 0.080 | 35.04 | 14.47 |
| 6/1/05 13:59 | 438 | 46.7 | 23.68 | 21.73 | 0.080 | 35.04 | 14.47 |
| 6/1/05 14:00 | 438 | 46.7 | 23.73 | 21.82 | 0.081 | 35.48 | 14.48 |
| 6/1/05 14:01 | 437 | 46.6 | 23.81 | 21.90 | 0.081 | 35.40 | 14.49 |
| 6/1/05 14:02 | 437 | 46.6 | 23.83 | 21.97 | 0.081 | 35.40 | 14.50 |
| Final Average* | 438 | 46.7 | 24.45 | 22.42 | 0.083 | 36.23 | 14.47 |
| Maximum* | 440 | 47.0 | 25.10 | 23.11 | 0.085 | 37.23 | 14.50 |
| Minimum* | 437 | 46.6 | 23.66 | 21.69 | 0.080 | 35.04 | 14.46 |

*Does not include Invalid Averaging Periods ("N/A")

1

GE KVB-Enertec NetDAHSC©
 Average Values Report
 Version 46.0
 Generated: 6/1/05 14:34

Company: Hunlock Creek Energy Ventures
 Plant: Hunlock
 City/St:
 Source: unit4

Period Start: 6/1/05 14:10
 Period End: 6/1/05 14:31
 Validation Type: 1/1 min
 Averaging Period: 1 min
 Type: Block Avg

| Period Start | Heat Input mmBtu | MEGA WATT mw | NOX ppm | NOX PPMC PPMC | NOX#MMBTU #/M | NOx Lb Hr #/H | O2d % |
|----------------|---------------------|-----------------|------------|------------------|------------------|------------------|----------|
| 6/1/05 14:10 | 438 | 46.5 | 23.72 | 21.80 | 0.081 | 35.48 | 14.48 |
| 6/1/05 14:11 | 437 | 46.6 | 23.69 | 21.76 | 0.080 | 34.96 | 14.48 |
| 6/1/05 14:12 | 438 | 46.7 | 23.65 | 21.69 | 0.080 | 35.04 | 14.47 |
| 6/1/05 14:13 | 437 | 46.7 | 23.70 | 21.73 | 0.080 | 34.96 | 14.47 |
| 6/1/05 14:14 | 437 | 46.6 | 23.72 | 21.76 | 0.080 | 34.96 | 14.47 |
| 6/1/05 14:15 | 437 | 46.6 | 23.73 | 21.78 | 0.080 | 34.96 | 14.49 |
| 6/1/05 14:16 | 437 | 46.6 | 23.72 | 21.82 | 0.080 | 34.96 | 14.49 |
| 6/1/05 14:17 | 437 | 46.6 | 23.68 | 21.74 | 0.080 | 34.96 | 14.47 |
| 6/1/05 14:18 | 437 | 46.6 | 23.76 | 21.82 | 0.080 | 34.96 | 14.48 |
| 6/1/05 14:19 | 437 | 46.7 | 23.73 | 21.75 | 0.080 | 34.96 | 14.47 |
| 6/1/05 14:20 | 437 | 46.6 | 23.79 | 21.81 | 0.080 | 34.96 | 14.46 |
| 6/1/05 14:21 | 438 | 46.7 | 23.72 | 21.76 | 0.080 | 35.04 | 14.47 |
| 6/1/05 14:22 | 438 | 46.7 | 23.79 | 21.82 | 0.080 | 35.04 | 14.47 |
| 6/1/05 14:23 | 438 | 46.6 | 23.77 | 21.79 | 0.080 | 35.04 | 14.46 |
| 6/1/05 14:24 | 438 | 46.6 | 23.72 | 21.73 | 0.080 | 34.96 | 14.46 |
| 6/1/05 14:25 | 437 | 46.7 | 23.74 | 21.76 | 0.080 | 34.96 | 14.47 |
| 6/1/05 14:26 | 437 | 46.7 | 23.68 | 21.72 | 0.080 | 34.96 | 14.47 |
| 6/1/05 14:27 | 437 | 46.6 | 23.73 | 21.77 | 0.080 | 34.96 | 14.47 |
| 6/1/05 14:28 | 437 | 46.7 | 23.72 | 21.75 | 0.080 | 34.96 | 14.47 |
| 6/1/05 14:29 | 438 | 46.7 | 23.79 | 21.80 | 0.080 | 35.04 | 14.46 |
| 6/1/05 14:30 | 437 | 46.7 | 23.80 | 21.82 | 0.080 | 34.96 | 14.46 |
| 6/1/05 14:31 | 438 | 46.7 | 23.89 | 21.93 | 0.081 | 35.48 | 14.47 |
| Final Average* | 437 | 46.6 | 23.74 | 21.78 | 0.080 | 35.03 | 14.47 |
| Maximum* | 438 | 46.7 | 23.89 | 21.93 | 0.081 | 35.48 | 14.49 |
| Minimum* | 437 | 46.5 | 23.65 | 21.69 | 0.080 | 34.96 | 14.46 |

*Does not include Invalid Averaging Periods ("N/A")

1

GE KVB-Enertec NetDAHS©
 Average Values Report
 Version 46.0
 Generated: 6/1/05 15:08

Company: Hunlock Creek Energy Ventures
 Plant: Hunlock
 City/St:
 Source: unit4

Period Start: 6/1/05 14:40
 Period End: 6/1/05 15:01
 Validation Type: 1/1 min
 Averaging Period: 1 min
 Type: Block Avg

| Period Start | Heat Input mmBtu | MEGA WATT mw | NOX ppm | NOX PPMC PPMC | NOX#MMBTU #/M | NOx Lb Hr #/H | O2d % |
|----------------|---------------------|-----------------|------------|------------------|------------------|------------------|----------|
| 6/1/05 14:40 | 438 | 46.8 | 23.72 | 21.72 | 0.080 | 35.04 | 14.46 |
| 6/1/05 14:41 | 438 | 46.7 | 23.66 | 21.68 | 0.080 | 35.04 | 14.46 |
| 6/1/05 14:42 | 438 | 46.7 | 23.76 | 21.77 | 0.080 | 35.04 | 14.46 |
| 6/1/05 14:43 | 438 | 46.7 | 23.83 | 21.84 | 0.080 | 35.04 | 14.46 |
| 6/1/05 14:44 | 438 | 46.7 | 23.86 | 21.87 | 0.081 | 35.48 | 14.46 |
| 6/1/05 14:45 | 437 | 46.6 | 23.93 | 21.92 | 0.081 | 35.40 | 14.46 |
| 6/1/05 14:46 | 438 | 46.6 | 23.98 | 21.98 | 0.081 | 35.48 | 14.46 |
| 6/1/05 14:47 | 438 | 46.7 | 24.08 | 22.10 | 0.081 | 35.48 | 14.47 |
| 6/1/05 14:48 | 437 | 46.6 | 23.98 | 21.98 | 0.081 | 35.40 | 14.46 |
| 6/1/05 14:49 | 437 | 46.6 | 24.09 | 22.09 | 0.081 | 35.40 | 14.47 |
| 6/1/05 14:50 | 437 | 46.6 | 24.15 | 22.18 | 0.082 | 35.83 | 14.48 |
| 6/1/05 14:51 | 437 | 46.6 | 24.10 | 22.15 | 0.082 | 35.83 | 14.48 |
| 6/1/05 14:52 | 438 | 46.6 | 23.93 | 21.94 | 0.081 | 35.48 | 14.47 |
| 6/1/05 14:53 | 438 | 46.7 | 23.02 | 21.09 | 0.078 | 34.16 | 14.46 |
| 6/1/05 14:54 | 438 | 46.7 | 23.01 | 21.08 | 0.078 | 34.16 | 14.46 |
| 6/1/05 14:55 | 438 | 46.6 | 22.92 | 21.00 | 0.077 | 33.73 | 14.46 |
| 6/1/05 14:56 | 439 | 46.7 | 22.97 | 21.05 | 0.078 | 34.24 | 14.46 |
| 6/1/05 14:57 | 438 | 46.6 | 23.07 | 21.17 | 0.078 | 34.16 | 14.47 |
| 6/1/05 14:58 | 438 | 46.7 | 23.78 | 21.82 | 0.080 | 35.04 | 14.47 |
| 6/1/05 14:59 | 438 | 46.6 | 23.77 | 21.86 | 0.080 | 35.04 | 14.49 |
| 6/1/05 15:00 | 438 | 46.7 | 23.82 | 21.88 | 0.081 | 35.48 | 14.48 |
| 6/1/05 15:01 | 438 | 46.7 | 23.86 | 21.90 | 0.081 | 35.48 | 14.47 |
| Final Average* | 438 | 46.7 | 23.70 | 21.73 | 0.080 | 35.07 | 14.47 |
| Maximum* | 439 | 46.8 | 24.15 | 22.18 | 0.082 | 35.83 | 14.49 |
| Minimum* | 437 | 46.6 | 22.92 | 21.00 | 0.077 | 33.73 | 14.46 |

*Does not include Invalid Averaging Periods ("N/A")

1

GE KVB-Enertec NetDAHS®
 Average Values Report
 Version 46.0
 Generated: 6/1/05 15:33

Company: Hunlock Creek Energy Ventures
 Plant: Hunlock
 City/St:
 Source: unit4

Period Start: 6/1/05 15:09
 Period End: 6/1/05 15:30
 Validation Type: 1/1 min
 Averaging Period: 1 min
 Type: Block Avg

| Period Start | Heat Input mmBtu | MEGA WATT mw | NOX ppm | NOX PPMC PPMC | NOX#MMBTU #/M | NOx Lb Hr #/H | O2d % |
|----------------|---------------------|-----------------|------------|------------------|------------------|------------------|----------|
| 6/1/05 15:09 | 437 | 46.5 | 24.09 | 22.12 | 0.082 | 35.83 | 14.48 |
| 6/1/05 15:10 | 437 | 46.5 | 24.11 | 22.16 | 0.082 | 35.83 | 14.48 |
| 6/1/05 15:11 | 437 | 46.5 | 24.20 | 22.26 | 0.082 | 35.83 | 14.49 |
| 6/1/05 15:12 | 437 | 46.6 | 24.20 | 22.30 | 0.082 | 35.83 | 14.50 |
| 6/1/05 15:13 | 437 | 46.5 | 24.11 | 22.20 | 0.082 | 35.83 | 14.49 |
| 6/1/05 15:14 | 437 | 46.5 | 24.14 | 22.21 | 0.082 | 35.83 | 14.49 |
| 6/1/05 15:15 | 437 | 46.5 | 24.14 | 22.23 | 0.082 | 35.83 | 14.49 |
| 6/1/05 15:16 | 438 | 46.6 | 24.05 | 22.12 | 0.082 | 35.92 | 14.49 |
| 6/1/05 15:17 | 438 | 46.7 | 23.96 | 21.99 | 0.081 | 35.48 | 14.47 |
| 6/1/05 15:18 | 438 | 46.7 | 23.95 | 21.97 | 0.081 | 35.48 | 14.47 |
| 6/1/05 15:19 | 438 | 46.7 | 23.93 | 21.94 | 0.081 | 35.48 | 14.47 |
| 6/1/05 15:20 | 438 | 46.6 | 23.93 | 21.96 | 0.081 | 35.48 | 14.47 |
| 6/1/05 15:21 | 438 | 46.6 | 24.04 | 22.10 | 0.081 | 35.48 | 14.48 |
| 6/1/05 15:22 | 440 | 46.5 | 24.15 | 22.22 | 0.082 | 36.08 | 14.49 |
| 6/1/05 15:23 | 438 | 46.6 | 24.22 | 22.29 | 0.082 | 35.92 | 14.49 |
| 6/1/05 15:24 | 442 | 46.6 | 24.24 | 22.28 | 0.082 | 36.24 | 14.48 |
| 6/1/05 15:25 | 441 | 46.7 | 24.15 | 22.16 | 0.082 | 36.16 | 14.47 |
| 6/1/05 15:26 | 440 | 46.7 | 24.06 | 22.08 | 0.081 | 35.64 | 14.47 |
| 6/1/05 15:27 | 439 | 46.7 | 24.04 | 22.06 | 0.081 | 35.56 | 14.47 |
| 6/1/05 15:28 | 438 | 46.7 | 24.04 | 22.03 | 0.081 | 35.48 | 14.46 |
| 6/1/05 15:29 | 439 | 46.8 | 23.91 | 21.90 | 0.081 | 35.56 | 14.46 |
| 6/1/05 15:30 | 442 | 46.8 | 23.95 | 21.95 | 0.081 | 35.80 | 14.46 |
| Final Average* | 438 | 46.6 | 24.07 | 22.12 | 0.082 | 35.75 | 14.48 |
| Maximum* | 442 | 46.8 | 24.24 | 22.30 | 0.082 | 36.24 | 14.50 |
| Minimum* | 437 | 46.5 | 23.91 | 21.90 | 0.081 | 35.48 | 14.46 |

*Does not include Invalid Averaging Periods ("N/A")

1

GE KVB-Enertec NetDAHS®
 Average Values Report
 Version 46.0
 Generated: 6/1/05 16:03

Company: Hunlock Creek Energy Ventures
 Plant: Hunlock
 City/St:
 Source: unit4

Period Start: 6/1/05 15:39
 Period End: 6/1/05 16:00
 Validation Type: 1/1 min
 Averaging Period: 1 min
 Type: Block Avg

| Period Start | Heat Input mmBtu | MEGA WATT mw | NOX ppm | NOX PPMC PPMC | NOX#MMBTU #/M | NOx Lb Hr #/H | O2d % |
|----------------|---------------------|-----------------|------------|------------------|------------------|------------------|----------|
| 6/1/05 15:39 | 440 | 46.6 | 24.32 | 22.30 | 0.082 | 36.08 | 14.46 |
| 6/1/05 15:40 | 442 | 46.6 | 24.32 | 22.31 | 0.082 | 36.24 | 14.47 |
| 6/1/05 15:41 | 442 | 46.6 | 24.26 | 22.22 | 0.082 | 36.24 | 14.46 |
| 6/1/05 15:42 | 442 | 46.6 | 24.19 | 22.17 | 0.082 | 36.24 | 14.46 |
| 6/1/05 15:43 | 441 | 46.5 | 24.28 | 22.25 | 0.082 | 36.16 | 14.46 |
| 6/1/05 15:44 | 441 | 46.5 | 24.33 | 22.34 | 0.082 | 36.16 | 14.47 |
| 6/1/05 15:45 | 441 | 46.4 | 24.27 | 22.27 | 0.082 | 36.16 | 14.47 |
| 6/1/05 15:46 | 441 | 46.5 | 24.32 | 22.38 | 0.082 | 36.16 | 14.49 |
| 6/1/05 15:47 | 441 | 46.5 | 24.27 | 22.34 | 0.082 | 36.16 | 14.49 |
| 6/1/05 15:48 | 441 | 46.5 | 24.22 | 22.28 | 0.082 | 36.16 | 14.49 |
| 6/1/05 15:49 | 441 | 46.5 | 24.25 | 22.34 | 0.082 | 36.16 | 14.50 |
| 6/1/05 15:50 | 441 | 46.5 | 24.18 | 22.22 | 0.082 | 36.16 | 14.48 |
| 6/1/05 15:51 | 441 | 46.5 | 24.14 | 22.19 | 0.082 | 36.16 | 14.48 |
| 6/1/05 15:52 | 441 | 46.4 | 24.16 | 22.25 | 0.082 | 36.16 | 14.49 |
| 6/1/05 15:53 | 440 | 46.4 | 24.27 | 22.37 | 0.082 | 36.08 | 14.50 |
| 6/1/05 15:54 | 440 | 46.4 | 24.28 | 22.38 | 0.082 | 36.08 | 14.50 |
| 6/1/05 15:55 | 441 | 46.4 | 24.32 | 22.42 | 0.083 | 36.60 | 14.50 |
| 6/1/05 15:56 | 441 | 46.4 | 24.31 | 22.41 | 0.083 | 36.60 | 14.50 |
| 6/1/05 15:57 | 440 | 46.4 | 24.28 | 22.37 | 0.082 | 36.08 | 14.50 |
| 6/1/05 15:58 | 441 | 46.4 | 24.00 | 22.08 | 0.081 | 35.72 | 14.49 |
| 6/1/05 15:59 | 441 | 46.4 | 23.34 | 21.40 | 0.079 | 34.84 | 14.47 |
| 6/1/05 16:00 | 440 | 46.3 | 23.30 | 21.39 | 0.079 | 34.76 | 14.47 |
| Final Average* | 441 | 46.5 | 24.16 | 22.21 | 0.082 | 36.05 | 14.48 |
| Maximum* | 442 | 46.6 | 24.33 | 22.42 | 0.083 | 36.60 | 14.50 |
| Minimum* | 440 | 46.3 | 23.30 | 21.39 | 0.079 | 34.76 | 14.46 |

*Does not include Invalid Averaging Periods ("N/A")

GE KVB-Enertec NetDAHSC
 Average Values Report
 Version 46.0
 Generated: 6/1/05 16:31

Company: Hunlock Creek Energy Ventures
 Plant: Hunlock
 City/St:
 Source: unit4

Period Start: 6/1/05 16:08
 Period End: 6/1/05 16:29
 Validation Type: 1/1 min
 Averaging Period: 1 min
 Type: Block Avg

| Period Start | Heat Input mmBtu | MEGA WATT mw | NOX ppm | NOX PPMC PPMC | NOX#MMBTU #/M | NOx Lb Hr #/H | O2d % |
|----------------|---------------------|-----------------|------------|------------------|------------------|------------------|----------|
| 6/1/05 16:08 | 441 | 46.4 | 23.11 | 21.20 | 0.078 | 34.40 | 14.47 |
| 6/1/05 16:09 | 442 | 46.5 | 23.09 | 21.18 | 0.078 | 34.48 | 14.47 |
| 6/1/05 16:10 | 443 | 46.5 | 22.99 | 21.07 | 0.078 | 34.55 | 14.46 |
| 6/1/05 16:11 | 442 | 46.6 | 22.93 | 21.01 | 0.077 | 34.03 | 14.46 |
| 6/1/05 16:12 | 444 | 46.7 | 22.84 | 20.92 | 0.077 | 34.19 | 14.46 |
| 6/1/05 16:13 | 443 | 46.6 | 22.82 | 20.90 | 0.077 | 34.11 | 14.46 |
| 6/1/05 16:14 | 442 | 46.6 | 22.88 | 20.97 | 0.077 | 34.03 | 14.46 |
| 6/1/05 16:15 | 443 | 46.6 | 22.86 | 20.94 | 0.077 | 34.11 | 14.46 |
| 6/1/05 16:16 | 443 | 46.6 | 22.84 | 20.92 | 0.077 | 34.11 | 14.46 |
| 6/1/05 16:17 | 444 | 46.7 | 22.80 | 20.89 | 0.077 | 34.19 | 14.46 |
| 6/1/05 16:18 | 443 | 46.7 | 22.73 | 20.83 | 0.077 | 34.11 | 14.46 |
| 6/1/05 16:19 | 443 | 46.6 | 22.76 | 20.86 | 0.077 | 34.11 | 14.46 |
| 6/1/05 16:20 | 443 | 46.5 | 22.81 | 20.90 | 0.077 | 34.11 | 14.46 |
| 6/1/05 16:21 | 442 | 46.5 | 22.85 | 20.94 | 0.077 | 34.03 | 14.46 |
| 6/1/05 16:22 | 442 | 46.4 | 22.87 | 20.97 | 0.077 | 34.03 | 14.47 |
| 6/1/05 16:23 | 442 | 46.5 | 22.93 | 21.01 | 0.077 | 34.03 | 14.46 |
| 6/1/05 16:24 | 442 | 46.4 | 22.93 | 21.01 | 0.077 | 34.03 | 14.46 |
| 6/1/05 16:25 | 442 | 46.4 | 22.95 | 21.03 | 0.077 | 34.03 | 14.46 |
| 6/1/05 16:26 | 442 | 46.5 | 22.94 | 21.02 | 0.077 | 34.03 | 14.46 |
| 6/1/05 16:27 | 442 | 46.5 | 22.94 | 21.02 | 0.077 | 34.03 | 14.46 |
| 6/1/05 16:28 | 442 | 46.5 | 22.82 | 20.92 | 0.077 | 34.03 | 14.46 |
| 6/1/05 16:29 | 442 | 46.5 | 22.85 | 20.94 | 0.077 | 34.03 | 14.46 |
| Final Average* | 442 | 46.5 | 22.89 | 20.98 | 0.077 | 34.13 | 14.46 |
| Maximum* | 444 | 46.7 | 23.11 | 21.20 | 0.078 | 34.55 | 14.47 |
| Minimum* | 441 | 46.4 | 22.73 | 20.83 | 0.077 | 34.03 | 14.46 |

*Does not include Invalid Averaging Periods ("N/A")

GE KVB-Enertec NetDAHSC©
 Average Values Report
 Version 46.0
 Generated: 6/1/05 16:59

Company: Hunlock Creek Energy Ventures
 Plant: Hunlock
 City/St:
 Source: unit4

Period Start: 6/1/05 16:37
 Period End: 6/1/05 16:58
 Validation Type: 1/1 min
 Averaging Period: 1 min
 Type: Block Avg

| Period Start | Heat Input mmBtu | MEGA WATT mw | NOX ppm | NOX PPMC PPMC | NOX#MMBTU #/M | NOx Lb Hr #/H | O2d % |
|----------------|---------------------|-----------------|------------|------------------|------------------|------------------|----------|
| 6/1/05 16:37 | 437 | 46.4 | 22.79 | 20.96 | 0.077 | 33.65 | 14.49 |
| 6/1/05 16:38 | 437 | 46.5 | 22.77 | 20.92 | 0.077 | 33.65 | 14.48 |
| 6/1/05 16:39 | 438 | 46.5 | 22.70 | 20.81 | 0.077 | 33.73 | 14.46 |
| 6/1/05 16:40 | 437 | 46.4 | 22.65 | 20.77 | 0.076 | 33.21 | 14.47 |
| 6/1/05 16:41 | 437 | 46.5 | 22.73 | 20.86 | 0.077 | 33.65 | 14.47 |
| 6/1/05 16:42 | 436 | 46.4 | 22.77 | 20.91 | 0.077 | 33.57 | 14.48 |
| 6/1/05 16:43 | 437 | 46.5 | 22.76 | 20.89 | 0.077 | 33.65 | 14.47 |
| 6/1/05 16:44 | 437 | 46.5 | 22.70 | 20.81 | 0.077 | 33.65 | 14.46 |
| 6/1/05 16:45 | 437 | 46.5 | 22.66 | 20.82 | 0.077 | 33.65 | 14.48 |
| 6/1/05 16:46 | 437 | 46.5 | 22.64 | 20.78 | 0.077 | 33.65 | 14.47 |
| 6/1/05 16:47 | 437 | 46.6 | 22.57 | 20.71 | 0.076 | 33.21 | 14.47 |
| 6/1/05 16:48 | 437 | 46.6 | 22.47 | 20.60 | 0.076 | 33.21 | 14.46 |
| 6/1/05 16:49 | 438 | 46.5 | 22.37 | 20.52 | 0.076 | 33.29 | 14.47 |
| 6/1/05 16:50 | 438 | 46.6 | 22.46 | 20.65 | 0.076 | 33.29 | 14.48 |
| 6/1/05 16:51 | 438 | 46.7 | 22.54 | 20.67 | 0.076 | 33.29 | 14.47 |
| 6/1/05 16:52 | 437 | 46.6 | 22.52 | 20.65 | 0.076 | 33.21 | 14.47 |
| 6/1/05 16:53 | 436 | 46.5 | 22.56 | 20.70 | 0.076 | 33.14 | 14.47 |
| 6/1/05 16:54 | 436 | 46.4 | 22.69 | 20.83 | 0.077 | 33.57 | 14.47 |
| 6/1/05 16:55 | 437 | 46.5 | 22.77 | 20.89 | 0.077 | 33.65 | 14.47 |
| 6/1/05 16:56 | 436 | 46.5 | 22.68 | 20.79 | 0.077 | 33.57 | 14.46 |
| 6/1/05 16:57 | 436 | 46.5 | 22.67 | 20.77 | 0.076 | 33.14 | 14.46 |
| 6/1/05 16:58 | 437 | 46.5 | 22.65 | 20.75 | 0.076 | 33.21 | 14.46 |
| Final Average* | 437 | 46.5 | 22.64 | 20.78 | 0.077 | 33.45 | 14.47 |
| Maximum* | 438 | 46.7 | 22.79 | 20.96 | 0.077 | 33.73 | 14.49 |
| Minimum* | 436 | 46.4 | 22.37 | 20.52 | 0.076 | 33.14 | 14.46 |

*Does not include Invalid Averaging Periods ("N/A")

APPENDIX 3
TEST RESULTS

12

13

CATALYST AIR MANAGEMENT Inc.
CALIBRATION DATA

CLIENT: UGI
PLANT: Hunlock
UNIT: 4
TEST: RATA
LOCATION: Stack

RUN #: 1-10
LOAD LEVEL: Normal
DATE: 6/1/2005

| GAS UNITS | ANALYZER SCALE | CYLINDER VALUE | ANALYZER VALUE | DIFF PPM | % SPAN | Pass Yes\No |
|-----------|----------------|----------------|----------------|----------|--------|-------------|
| O2, % | | 0.00 | 0.01 | 0.01 | 0.04 | YES |
| O2, % | 25 | 11.92 | 11.89 | 0.03 | 0.12 | YES |
| O2, % | | 22.43 | 22.42 | 0.01 | 0.04 | YES |
| CO2, % | | 0.00 | 0.02 | 0.02 | 0.10 | YES |
| CO2, % | 20 | 9.997 | 10.01 | 0.01 | 0.06 | YES |
| CO2, % | | 17.83 | 17.85 | 0.02 | 0.10 | YES |
| NOx ppm: | | 0.0 | 0.00 | 0.00 | 0.00 | YES |
| NOx ppm: | 25 | 13.73 | 13.91 | 0.18 | 0.72 | YES |
| NOx ppm: | | 22.74 | 22.74 | 0.00 | 0.00 | YES |

CATALYST AIR MANAGEMENT, Inc.
REFERENCE DATA

| | |
|-----------------|---------------------|
| CLIENT: UGI | RUN #: 1 |
| PLANT: Hunlock | OPERATING LEVEL: 47 |
| UNIT: 4 | START DATE: 6/1/05 |
| TEST: 3A,7E,10 | END DATE: 6/1/05 |
| LOCATION: Stack | START: 12:10 |
| | END: 12:31 |

| DATE | TIME | O2 | CO2 | NOx |
|----------|-------|-------|------|-------|
| 6/1/2005 | 12:10 | 14.57 | 3.8 | 24.36 |
| 6/1/2005 | 12:11 | 14.56 | 3.88 | 24.02 |
| 6/1/2005 | 12:12 | 14.48 | 3.89 | 24.03 |
| 6/1/2005 | 12:13 | 14.46 | 3.9 | 23.96 |
| 6/1/2005 | 12:14 | 14.45 | 3.86 | 23.64 |
| 6/1/2005 | 12:15 | 14.48 | 3.79 | 23.74 |
| 6/1/2005 | 12:16 | 14.56 | 3.78 | 24.01 |
| 6/1/2005 | 12:17 | 14.58 | 3.78 | 24.09 |
| 6/1/2005 | 12:18 | 14.57 | 3.83 | 24.17 |
| 6/1/2005 | 12:19 | 14.55 | 3.89 | 24.43 |
| 6/1/2005 | 12:20 | 14.47 | 3.89 | 24.22 |
| 6/1/2005 | 12:21 | 14.45 | 3.89 | 23.9 |
| 6/1/2005 | 12:22 | 14.45 | 3.83 | 24.04 |
| 6/1/2005 | 12:23 | 14.49 | 3.78 | 24.13 |
| 6/1/2005 | 12:24 | 14.56 | 3.78 | 24.14 |
| 6/1/2005 | 12:25 | 14.31 | 3.78 | 24.09 |
| 6/1/2005 | 12:26 | 14.55 | 3.85 | 24.02 |
| 6/1/2005 | 12:27 | 14.5 | 3.89 | 23.99 |
| 6/1/2005 | 12:28 | 14.43 | 3.89 | 24.03 |
| 6/1/2005 | 12:29 | 14.43 | 3.89 | 24.06 |
| 6/1/2005 | 12:30 | 14.43 | 3.81 | 24.14 |
| 6/1/2005 | 12:31 | 14.49 | 3.78 | 24.18 |

| | | | |
|-------|------|-------|---------------------------------|
| O2 | CO2 | NOx | |
| 14.49 | 3.84 | 24.06 | Analyzer Readings not corrected |
| % | % | ppm | for Post-Test Calibrations. |

SYSTEM CALIBRATION BIAS AND DRIFT DATA

| GAS UNITS | ANALYZER VALUE | PRE-TEST CHECK | % SPAN | Pass YES\NO | POST-TEST CHECK | % SPAN | % DRIFT | Pass YES\NO |
|-----------|----------------|----------------|--------|-------------|-----------------|--------|---------|-------------|
| O2, % | 0.01 | 0.02 | 0.04 | YES | 0.13 | 0.48 | 0.44 | YES |
| O2, % | 22.42 | 22.45 | 0.12 | YES | 22.50 | 0.32 | 0.20 | YES |
| CO2, % | 0.02 | 0.05 | 0.15 | YES | 0.04 | 0.10 | 0.05 | YES |
| CO2, % | 17.85 | 17.88 | 0.15 | YES | 17.83 | 0.10 | 0.25 | YES |
| NOx ppm: | 0.00 | 0.07 | 0.28 | YES | 0.21 | 0.84 | 0.56 | YES |
| NOx ppm: | 22.74 | 22.71 | 0.12 | YES | 22.69 | 0.20 | 0.08 | YES |

UNCORRECTED ANALYZER VALUES

| | |
|----------|---------|
| DRY | @15% O2 |
| O2, % | 14.5 |
| CO2, % | 3.8 |
| NOx ppm: | 24.1 |

ANALYZER VALUES CORRECTED FOR DRIFT

| | |
|----------|---------|
| DRY | @15% O2 |
| O2, % | 14.4 |
| CO2, % | 3.8 |
| NOx ppm: | 24.1 |
| | 21.88 |

F- FACTOR (scf/mmBtu) = 8710

Heat Input (mmBtu/Hr) = 441

EMISSION RATES

NOx, lbs/mmBtu = 0.081

NOx, lbs/hr = 35.72

CATALYST AIR MANAGEMENT, Inc.
REFERENCE DATA

CLIENT: UGI
PLANT: Hunlock
UNIT: 4
TEST: 3A,7E,10
LOCATION: Stack

RUN #: 2
OPERATING LEVEL: 47
START DATE: 6/1/05
END DATE: 6/1/05
START: 12:42
END: 13:03

| DATE | TIME | O2 | CO2 | NOx |
|----------|-------|-------|------|-------|
| 6/1/2005 | 12:42 | 14.43 | 3.85 | 24.01 |
| 6/1/2005 | 12:43 | 14.5 | 3.83 | 24.09 |
| 6/1/2005 | 12:44 | 14.54 | 3.82 | 24.14 |
| 6/1/2005 | 12:45 | 14.54 | 3.84 | 23.97 |
| 6/1/2005 | 12:46 | 14.53 | 3.92 | 23.99 |
| 6/1/2005 | 12:47 | 14.44 | 3.94 | 24.27 |
| 6/1/2005 | 12:48 | 14.41 | 3.93 | 24.24 |
| 6/1/2005 | 12:49 | 14.17 | 3.91 | 24.28 |
| 6/1/2005 | 12:50 | 14.43 | 3.83 | 24.41 |
| 6/1/2005 | 12:51 | 14.51 | 3.82 | 24.34 |
| 6/1/2005 | 12:52 | 14.53 | 3.82 | 24.19 |
| 6/1/2005 | 12:53 | 14.52 | 3.82 | 24.29 |
| 6/1/2005 | 12:54 | 14.52 | 3.82 | 24.13 |
| 6/1/2005 | 12:55 | 14.53 | 3.87 | 24.33 |
| 6/1/2005 | 12:56 | 14.49 | 3.93 | 24.43 |
| 6/1/2005 | 12:57 | 14.42 | 3.93 | 24.51 |
| 6/1/2005 | 12:58 | 14.41 | 3.93 | 24.4 |
| 6/1/2005 | 12:59 | 14.4 | 3.86 | 24.21 |
| 6/1/2005 | 13:00 | 14.45 | 3.82 | 24.25 |
| 6/1/2005 | 13:01 | 14.51 | 3.82 | 24.22 |
| 6/1/2005 | 13:02 | 14.52 | 3.82 | 24.25 |
| 6/1/2005 | 13:03 | 14.5 | 3.9 | 24.18 |
| | | O2 | CO2 | NOx |
| | | 14.47 | 3.87 | 24.23 |
| | | % | % | ppm |

Analyzer Readings not corrected
for Post-Test Calibrations.

SYSTEM CALIBRATION BIAS AND DRIFT DATA

| GAS UNITS | ANALYZER VALUE | PRE-TEST CHECK | % SPAN | Pass YES\NO | POST-TEST CHECK | % SPAN | % DRIFT | Pass YES\NO |
|-----------|----------------|----------------|--------|-------------|-----------------|--------|---------|-------------|
| O2, % | 0.01 | 0.13 | 0.48 | YES | 0.04 | 0.12 | 0.36 | YES |
| O2, % | 22.42 | 22.50 | 0.32 | YES | 22.42 | 0.00 | 0.32 | YES |
| CO2, % | 0.02 | 0.04 | 0.10 | YES | 0.00 | 0.10 | 0.20 | YES |
| CO2, % | 17.85 | 17.83 | 0.10 | YES | 17.80 | 0.25 | 0.15 | YES |
| NOx ppm: | 0.00 | 0.21 | 0.84 | YES | 0.37 | 1.48 | 0.64 | YES |
| NOx ppm: | 22.74 | 22.69 | 0.20 | YES | 22.85 | 0.44 | 0.64 | YES |

UNCORRECTED ANALYZER VALUES

| | DRY |
|----------|------|
| O2, % | 14.5 |
| CO2, % | 3.9 |
| NOx ppm: | 24.2 |

ANALYZER VALUES CORRECTED FOR DRIFT

| | DRY | @15% O2 |
|----------|------|---------|
| O2, % | 14.4 | |
| CO2, % | 3.9 | |
| NOx ppm: | 24.2 | 22.0 |

F- FACTOR (scf/mmBtu) = 8710
Heat Input (mmBtu/Hr) = 441

| EMISSION RATES | |
|------------------|-------|
| NOx, lbs/mmBtu = | 0.081 |
| NOx, lbs/hr = | 35.72 |

CATALYST AIR MANAGEMENT, Inc.
REFERENCE DATA

| | |
|-----------------|---------------------|
| CLIENT: UGI | RUN #: 3 |
| PLANT: Hunlock | OPERATING LEVEL: 47 |
| UNIT: 4 | START DATE: 6/1/05 |
| TEST: 3A,7E,10 | END DATE: 6/1/05 |
| LOCATION: Stack | START: 13:13 |
| | END: 13:34 |

| DATE | TIME | O2 | CO2 | NOx |
|----------|-------|-------|------|-------|
| 6/1/2005 | 13:13 | 14.38 | 3.94 | 24.6 |
| 6/1/2005 | 13:14 | 14.37 | 3.91 | 24.61 |
| 6/1/2005 | 13:15 | 14.39 | 3.83 | 24.46 |
| 6/1/2005 | 13:16 | 14.47 | 3.82 | 24.36 |
| 6/1/2005 | 13:17 | 14.49 | 3.82 | 24.35 |
| 6/1/2005 | 13:18 | 14.48 | 3.86 | 24.15 |
| 6/1/2005 | 13:19 | 14.46 | 3.92 | 24.19 |
| 6/1/2005 | 13:20 | 14.38 | 3.93 | 24.47 |
| 6/1/2005 | 13:21 | 14.4 | 3.92 | 23.9 |
| 6/1/2005 | 13:22 | 14.39 | 3.87 | 23.88 |
| 6/1/2005 | 13:23 | 14.42 | 3.82 | 23.9 |
| 6/1/2005 | 13:24 | 14.5 | 3.81 | 23.82 |
| 6/1/2005 | 13:25 | 14.5 | 3.81 | 24.03 |
| 6/1/2005 | 13:26 | 14.5 | 3.87 | 24.03 |
| 6/1/2005 | 13:27 | 14.46 | 3.92 | 23.97 |
| 6/1/2005 | 13:28 | 14.4 | 3.92 | 24.1 |
| 6/1/2005 | 13:29 | 14.4 | 3.92 | 24.3 |
| 6/1/2005 | 13:30 | 14.4 | 3.85 | 24.21 |
| 6/1/2005 | 13:31 | 14.45 | 3.81 | 24.05 |
| 6/1/2005 | 13:32 | 14.5 | 3.81 | 24.12 |
| 6/1/2005 | 13:33 | 14.5 | 3.82 | 24.09 |
| 6/1/2005 | 13:34 | 14.5 | 3.89 | 24.11 |

| | | |
|-------|------|-------|
| O2 | CO2 | NOx |
| 14.44 | 3.87 | 24.17 |
| % | % | ppm |

Analyzer Readings not corrected
for Post-Test Calibrations.

SYSTEM CALIBRATION BIAS AND DRIFT DATA

| GAS UNITS | ANALYZER VALUE | PRE-TEST CHECK | % SPAN | Pass YES\NO | POST-TEST CHECK | % SPAN | % DRIFT | Pass YES\NO |
|-----------|----------------|----------------|--------|-------------|-----------------|--------|---------|-------------|
| O2, % | 0.01 | 0.04 | 0.12 | YES | 0.02 | 0.04 | 0.08 | YES |
| O2, % | 22.42 | 22.42 | 0.00 | YES | 22.42 | 0.00 | 0.00 | YES |
| CO2, % | 0.02 | 0.00 | 0.10 | YES | 0.06 | 0.20 | 0.30 | YES |
| CO2, % | 17.85 | 17.80 | 0.25 | YES | 17.78 | 0.35 | 0.10 | YES |
| NOx ppm: | 0.00 | 0.37 | 1.48 | YES | 0.40 | 1.60 | 0.12 | YES |
| NOx ppm: | 22.74 | 22.85 | 0.44 | YES | 22.80 | 0.24 | 0.20 | YES |

UNCORRECTED ANALYZER VALUES

| | |
|----------|---------|
| DRY | @15% O2 |
| O2, % | 14.4 |
| CO2, % | 3.9 |
| NOx ppm: | 24.2 |

ANALYZER VALUES CORRECTED FOR DRIFT

| | |
|----------|---------|
| DRY | @15% O2 |
| O2, % | 14.4 |
| CO2, % | 3.9 |
| NOx ppm: | 24.1 |
| | 21.9 |

F- FACTOR (scf/mmBtu) = **8710**

Heat Input (mmBtu/Hr) = **440**

| | |
|----------------|-------------------------------|
| EMISSION RATES | NOx, lbs/mmBtu = 0.081 |
| | NOx, lbs/hr = 35.64 |

CATALYST AIR MANAGEMENT, Inc.
REFERENCE DATA

CLIENT: UGI
PLANT: Hunlock
UNIT: 4
TEST: 3A,7E,10
LOCATION: Stack

RUN #: 4
OPERATING LEVEL: 47
START DATE: 6/1/05
END DATE: 6/1/05
START: 13:41
END: 14:02

| DATE | TIME | O2 | CO2 | NOx |
|----------|-------|-------|------|-------|
| 6/1/2005 | 13:41 | 14.68 | 4.7 | 24.03 |
| 6/1/2005 | 13:42 | 14.5 | 3.94 | 24.68 |
| 6/1/2005 | 13:43 | 14.42 | 3.94 | 24.57 |
| 6/1/2005 | 13:44 | 14.4 | 3.94 | 24.6 |
| 6/1/2005 | 13:45 | 14.4 | 3.9 | 24.91 |
| 6/1/2005 | 13:46 | 14.42 | 3.82 | 24.9 |
| 6/1/2005 | 13:47 | 14.5 | 3.82 | 24.76 |
| 6/1/2005 | 13:48 | 14.52 | 3.81 | 24.95 |
| 6/1/2005 | 13:49 | 14.53 | 3.85 | 24.89 |
| 6/1/2005 | 13:50 | 14.5 | 3.92 | 24.87 |
| 6/1/2005 | 13:51 | 14.42 | 3.93 | 24.66 |
| 6/1/2005 | 13:52 | 14.42 | 3.93 | 24.78 |
| 6/1/2005 | 13:53 | 14.42 | 3.87 | 24.74 |
| 6/1/2005 | 13:54 | 14.45 | 3.75 | 24.92 |
| 6/1/2005 | 13:55 | 14.53 | 3.81 | 24.93 |
| 6/1/2005 | 13:56 | 14.54 | 3.81 | 24.14 |
| 6/1/2005 | 13:57 | 14.53 | 3.88 | 23.78 |
| 6/1/2005 | 13:58 | 14.48 | 3.92 | 23.64 |
| 6/1/2005 | 13:59 | 14.42 | 3.93 | 23.71 |
| 6/1/2005 | 14:00 | 14.42 | 3.93 | 23.76 |
| 6/1/2005 | 14:01 | 14.42 | 3.85 | 23.83 |
| 6/1/2005 | 14:02 | 14.49 | 3.82 | 23.96 |

| | | |
|-------|------|-------|
| O2 | CO2 | NOx |
| 14.47 | 3.91 | 24.46 |
| % | % | ppm |

Analyzer Readings not corrected
for Post-Test Calibrations.

SYSTEM CALIBRATION BIAS AND DRIFT DATA

| GAS UNITS | ANALYZER VALUE | PRE-TEST CHECK | % SPAN | Pass YES\NO | POST-TEST CHECK | % SPAN | % DRIFT | Pass YES\NO |
|-----------|----------------|----------------|--------|-------------|-----------------|--------|---------|-------------|
| O2, % | 0.01 | 0.02 | 0.04 | YES | 0.05 | 0.16 | 0.12 | YES |
| O2, % | 22.42 | 22.42 | 0.00 | YES | 22.36 | 0.24 | 0.24 | YES |
| CO2, % | 0.02 | 0.06 | 0.20 | YES | 0.10 | 0.40 | 0.20 | YES |
| CO2, % | 17.85 | 17.78 | 0.35 | YES | 17.85 | 0.00 | 0.35 | YES |
| NOx ppm: | 0.00 | 0.40 | 1.60 | YES | 0.36 | 1.44 | 0.16 | YES |
| NOx ppm: | 22.74 | 22.80 | 0.24 | YES | 22.59 | 0.60 | 0.84 | YES |

UNCORRECTED ANALYZER VALUES

| | |
|----------|------|
| DRY | |
| O2, % | 14.5 |
| CO2, % | 3.9 |
| NOx ppm: | 24.5 |

ANALYZER VALUES CORRECTED FOR DRIFT

| | |
|----------|---------|
| DRY | @15% O2 |
| O2, % | 14.5 |
| CO2, % | 3.9 |
| NOx ppm: | 24.5 |
| | 22.6 |

F- FACTOR (scf/mmBtu) = 8710

Heat Input (mmBtu/Hr) = 438

EMISSION RATES

NOx, lbs/mmBtu = 0.083

NOx, lbs/hr = 36.35

CATALYST AIR MANAGEMENT, Inc.
REFERENCE DATA

CLIENT: UGI
PLANT: Hunlock
UNIT: 4
TEST: 3A,7E,10
LOCATION: Stack

RUN #: 5
OPERATING LEVEL: 47
START DATE: 6/1/05
END DATE: 6/1/05
START: 14:10
END: 14:31

| DATE | TIME | O2 | CO2 | NOx |
|----------|-------|-------|------|-------|
| 6/1/2005 | 14:10 | 14.52 | 3.87 | 23.87 |
| 6/1/2005 | 14:11 | 14.54 | 3.84 | 23.75 |
| 6/1/2005 | 14:12 | 14.54 | 3.85 | 23.83 |
| 6/1/2005 | 14:13 | 14.52 | 3.93 | 23.82 |
| 6/1/2005 | 14:14 | 14.44 | 3.94 | 23.86 |
| 6/1/2005 | 14:15 | 14.43 | 3.94 | 23.88 |
| 6/1/2005 | 14:16 | 14.43 | 3.89 | 24.02 |
| 6/1/2005 | 14:17 | 14.46 | 3.82 | 24.03 |
| 6/1/2005 | 14:18 | 14.54 | 3.82 | 24.03 |
| 6/1/2005 | 14:19 | 14.55 | 3.82 | 24.05 |
| 6/1/2005 | 14:20 | 14.55 | 3.87 | 24.09 |
| 6/1/2005 | 14:21 | 14.51 | 3.93 | 24.17 |
| 6/1/2005 | 14:22 | 14.44 | 3.94 | 24.33 |
| 6/1/2005 | 14:23 | 14.43 | 3.94 | 24.31 |
| 6/1/2005 | 14:24 | 14.44 | 3.87 | 24.3 |
| 6/1/2005 | 14:25 | 14.48 | 3.83 | 24.27 |
| 6/1/2005 | 14:26 | 14.55 | 3.82 | 24.28 |
| 6/1/2005 | 14:27 | 14.55 | 3.83 | 24.2 |
| 6/1/2005 | 14:28 | 14.56 | 3.9 | 24.19 |
| 6/1/2005 | 14:29 | 14.49 | 3.93 | 24.28 |
| 6/1/2005 | 14:30 | 14.44 | 3.94 | 24.24 |
| 6/1/2005 | 14:31 | 14.44 | 3.93 | 24.36 |

| | | | |
|-------|------|-------|---------------------------------|
| O2 | CO2 | NOx | |
| 14.49 | 3.88 | 24.10 | Analyzer Readings not corrected |
| % | % | ppm | for Post-Test Calibrations. |

SYSTEM CALIBRATION BIAS AND DRIFT DATA

| GAS UNITS | ANALYZER VALUE | PRE-TEST CHECK | % SPAN | Pass YES\NO | POST-TEST CHECK | % SPAN | % DRIFT | Pass YES\NO |
|-----------|----------------|----------------|--------|-------------|-----------------|--------|---------|-------------|
| O2, % | 0.01 | 0.05 | 0.16 | YES | 0.07 | 0.24 | 0.08 | YES |
| O2, % | 22.42 | 22.36 | 0.24 | YES | 22.33 | 0.36 | 0.12 | YES |
| CO2, % | 0.02 | 0.10 | 0.40 | YES | 0.09 | 0.35 | 0.05 | YES |
| CO2, % | 17.85 | 17.85 | 0.00 | YES | 17.87 | 0.10 | 0.10 | YES |
| NOx ppm: | 0.00 | 0.36 | 1.44 | YES | 0.20 | 0.80 | 0.64 | YES |
| NOx ppm: | 22.74 | 22.59 | 0.60 | YES | 22.69 | 0.20 | 0.40 | YES |

UNCORRECTED ANALYZER VALUES

| | |
|----------|------|
| DRY | |
| O2, % | 14.5 |
| CO2, % | 3.9 |
| NOx ppm: | 24.1 |

ANALYZER VALUES CORRECTED FOR DRIFT

| | |
|----------|---------|
| DRY | @15% O2 |
| O2, % | 14.5 |
| CO2, % | 3.8 |
| NOx ppm: | 24.2 |
| | 22.3 |

F- FACTOR (scf/mmBtu) = 8710

Heat Input (mmBtu/Hr) = 437

| | |
|------------------|-------|
| EMISSION RATES | |
| NOx, lbs/mmBtu = | 0.082 |
| NOx, lbs/hr = | 35.83 |

CATALYST AIR MANAGEMENT, Inc.
REFERENCE DATA

CLIENT: UGI
PLANT: Hunlock
UNIT: 4
TEST: 3A,7E,10
LOCATION: Stack

RUN #: 6
OPERATING LEVEL: Normal
START DATE: 6/1/05
END DATE: 6/1/05
START: 14:40
END: 15:01

| DATE | TIME | O2 | CO2 | NOx |
|----------|-------|-------|------|-------|
| 6/1/2005 | 14:40 | 14.51 | 3.85 | 23.87 |
| 6/1/2005 | 14:41 | 14.51 | 3.85 | 23.82 |
| 6/1/2005 | 14:42 | 14.54 | 3.83 | 23.8 |
| 6/1/2005 | 14:43 | 14.54 | 3.87 | 23.78 |
| 6/1/2005 | 14:44 | 14.52 | 3.93 | 23.93 |
| 6/1/2005 | 14:45 | 14.43 | 3.94 | 23.98 |
| 6/1/2005 | 14:46 | 14.42 | 3.94 | 24.21 |
| 6/1/2005 | 14:47 | 14.43 | 3.88 | 24.39 |
| 6/1/2005 | 14:48 | 14.47 | 3.82 | 24.39 |
| 6/1/2005 | 14:49 | 14.54 | 3.82 | 24.49 |
| 6/1/2005 | 14:50 | 14.55 | 3.82 | 24.53 |
| 6/1/2005 | 14:51 | 14.56 | 3.88 | 24.56 |
| 6/1/2005 | 14:52 | 14.52 | 3.93 | 24.58 |
| 6/1/2005 | 14:53 | 14.44 | 3.94 | 23.91 |
| 6/1/2005 | 14:54 | 14.44 | 3.94 | 23.73 |
| 6/1/2005 | 14:55 | 14.43 | 3.86 | 23.68 |
| 6/1/2005 | 14:56 | 14.49 | 3.83 | 23.68 |
| 6/1/2005 | 14:57 | 14.54 | 3.83 | 23.65 |
| 6/1/2005 | 14:58 | 14.55 | 3.83 | 24.51 |
| 6/1/2005 | 14:59 | 14.55 | 3.91 | 24.48 |
| 6/1/2005 | 15:00 | 14.48 | 3.93 | 24.57 |
| 6/1/2005 | 15:01 | 14.43 | 3.94 | 24.62 |

| | | |
|-------|------|-------|
| O2 | CO2 | NOx |
| 14.50 | 3.88 | 24.14 |
| % | % | ppm |

Analyzer Readings not corrected
for Post-Test Calibrations.

SYSTEM CALIBRATION BIAS AND DRIFT DATA

| GAS UNITS | ANALYZER VALUE | PRE-TEST CHECK | % SPAN | Pass YES\NO | POST-TEST CHECK | % SPAN | % DRIFT | Pass YES\NO |
|-----------|----------------|----------------|--------|-------------|-----------------|--------|---------|-------------|
| O2, % | 0.01 | 0.07 | 0.24 | YES | 0.13 | 0.48 | 0.24 | YES |
| O2, % | 22.42 | 22.33 | 0.36 | YES | 22.35 | 0.28 | 0.08 | YES |
| CO2, % | 0.02 | 0.09 | 0.35 | YES | 0.03 | 0.05 | 0.30 | YES |
| CO2, % | 17.85 | 17.87 | 0.10 | YES | 17.83 | 0.10 | 0.20 | YES |
| NOx ppm: | 0.00 | 0.20 | 0.80 | YES | 0.32 | 1.28 | 0.48 | YES |
| NOx ppm: | 22.74 | 22.69 | 0.20 | YES | 22.73 | 0.04 | 0.16 | YES |

UNCORRECTED ANALYZER VALUES

| | |
|----------|------|
| DRY | |
| O2, % | 14.5 |
| CO2, % | 3.9 |
| NOx ppm: | 24.1 |

ANALYZER VALUES CORRECTED FOR DRIFT

| | |
|----------|---------|
| DRY | @15% O2 |
| O2, % | 14.5 |
| CO2, % | 3.8 |
| NOx ppm: | 24.2 |
| | 22.3 |

F- FACTOR (scf/mmBtu) = 8710
Heat Input (mmBtu/Hr) = 438

| | |
|------------------|-------|
| EMISSION RATES | |
| NOx, lbs/mmBtu = | 0.082 |
| NOx, lbs/hr = | 35.92 |

CATALYST AIR MANAGEMENT, Inc.
REFERENCE DATA

CLIENT: UGI
PLANT: Hunlock
UNIT: 4
TEST: 3A,7E,10
LOCATION: Stack

RUN #: 7
OPERATING LEVEL: Normal
START DATE: 6/1/05
END DATE: 6/1/05
START: 15:09
END: 15:30

| DATE | TIME | O2 | CO2 | NOx |
|----------|-------|-------|------|-------|
| 6/1/2005 | 15:09 | 14.44 | 3.96 | 24.34 |
| 6/1/2005 | 15:10 | 14.44 | 3.92 | 24.34 |
| 6/1/2005 | 15:11 | 14.46 | 3.84 | 24.31 |
| 6/1/2005 | 15:12 | 14.53 | 3.83 | 24.23 |
| 6/1/2005 | 15:13 | 14.55 | 3.82 | 24.15 |
| 6/1/2005 | 15:14 | 14.55 | 3.86 | 24.24 |
| 6/1/2005 | 15:15 | 14.53 | 3.93 | 24.33 |
| 6/1/2005 | 15:16 | 14.45 | 3.93 | 24.38 |
| 6/1/2005 | 15:17 | 14.44 | 3.94 | 24.29 |
| 6/1/2005 | 15:18 | 14.43 | 3.88 | 24.33 |
| 6/1/2005 | 15:19 | 14.47 | 3.83 | 24.33 |
| 6/1/2005 | 15:20 | 14.54 | 3.83 | 24.35 |
| 6/1/2005 | 15:21 | 14.55 | 3.83 | 24.41 |
| 6/1/2005 | 15:22 | 14.56 | 3.89 | 24.58 |
| 6/1/2005 | 15:23 | 14.51 | 3.93 | 24.67 |
| 6/1/2005 | 15:24 | 14.45 | 3.94 | 24.74 |
| 6/1/2005 | 15:25 | 14.45 | 3.93 | 24.79 |
| 6/1/2005 | 15:26 | 14.45 | 3.86 | 24.7 |
| 6/1/2005 | 15:27 | 14.5 | 3.83 | 24.68 |
| 6/1/2005 | 15:28 | 14.56 | 3.83 | 24.67 |
| 6/1/2005 | 15:29 | 14.55 | 3.84 | 24.6 |
| 6/1/2005 | 15:30 | 14.55 | 3.92 | 24.56 |

| | | | |
|-------|------|-------|---------------------------------|
| O2 | CO2 | NOx | |
| 14.50 | 3.88 | 24.46 | Analyzer Readings not corrected |
| % | % | ppm | for Post-Test Calibrations. |

SYSTEM CALIBRATION BIAS AND DRIFT DATA

| GAS UNITS | ANALYZER VALUE | PRE-TEST CHECK | % SPAN | Pass YES\NO | POST-TEST CHECK | % SPAN | % DRIFT | Pass YES\NO |
|-----------|----------------|----------------|--------|-------------|-----------------|--------|---------|-------------|
| O2, % | 0.01 | 0.13 | 0.48 | YES | 0.10 | 0.36 | 0.12 | YES |
| O2, % | 22.42 | 22.35 | 0.28 | YES | 22.40 | 0.08 | 0.20 | YES |
| CO2, % | 0.02 | 0.03 | 0.05 | YES | 0.05 | 0.15 | 0.10 | YES |
| CO2, % | 17.85 | 17.83 | 0.10 | YES | 17.86 | 0.05 | 0.15 | YES |
| NOx ppm: | 0.00 | 0.32 | 1.28 | YES | 0.34 | 1.36 | 0.08 | YES |
| NOx ppm: | 22.74 | 22.73 | 0.04 | YES | 22.65 | 0.36 | 0.32 | YES |

UNCORRECTED ANALYZER VALUES

| | |
|----------|------|
| DRY | |
| O2, % | 14.5 |
| CO2, % | 3.9 |
| NOx ppm: | 24.5 |

ANALYZER VALUES CORRECTED FOR DRIFT

| | |
|----------|---------|
| DRY | @15% O2 |
| O2, % | 14.5 |
| CO2, % | 3.8 |
| NOx ppm: | 24.5 |
| | 22.6 |

F- FACTOR (scf/mmBtu) = 8710

Heat Input (mmBtu/Hr) = 438

EMISSION RATES

NOx, lbs/mmBtu = 0.083

NOx, lbs/hr = 36.35

CATALYST AIR MANAGEMENT, Inc.
REFERENCE DATA

CLIENT: UGI
PLANT: Hunlock
UNIT: 4
TEST: 3A,7E,10
LOCATION: Stack

RUN #: 8
OPERATING LEVEL: Normal
START DATE: 6/1/05
END DATE: 6/1/05
START: 15:39
END: 16:00

| DATE | TIME | O2 | CO2 | NOx |
|----------|-------|-------|------|-------|
| 6/1/2005 | 15:39 | 14.46 | 3.93 | 24.74 |
| 6/1/2005 | 15:40 | 14.44 | 3.94 | 24.69 |
| 6/1/2005 | 15:41 | 14.44 | 3.91 | 24.6 |
| 6/1/2005 | 15:42 | 14.45 | 3.83 | 24.4 |
| 6/1/2005 | 15:43 | 14.54 | 3.83 | 24.34 |
| 6/1/2005 | 15:44 | 14.55 | 3.82 | 24.49 |
| 6/1/2005 | 15:45 | 14.55 | 3.87 | 24.56 |
| 6/1/2005 | 15:46 | 14.53 | 3.93 | 24.59 |
| 6/1/2005 | 15:47 | 14.46 | 3.93 | 24.69 |
| 6/1/2005 | 15:48 | 14.45 | 3.93 | 24.72 |
| 6/1/2005 | 15:49 | 14.45 | 3.88 | 24.78 |
| 6/1/2005 | 15:50 | 14.48 | 3.82 | 24.79 |
| 6/1/2005 | 15:51 | 14.55 | 3.82 | 24.84 |
| 6/1/2005 | 15:52 | 14.56 | 3.82 | 24.85 |
| 6/1/2005 | 15:53 | 14.56 | 3.89 | 24.83 |
| 6/1/2005 | 15:54 | 14.53 | 3.93 | 24.84 |
| 6/1/2005 | 15:55 | 14.46 | 3.93 | 24.9 |
| 6/1/2005 | 15:56 | 14.47 | 3.93 | 24.91 |
| 6/1/2005 | 15:57 | 14.46 | 3.85 | 24.92 |
| 6/1/2005 | 15:58 | 14.52 | 3.82 | 24.87 |
| 6/1/2005 | 15:59 | 14.57 | 3.82 | 24.41 |
| 6/1/2005 | 16:00 | 14.57 | 3.83 | 24.21 |

| | | | |
|-------|------|-------|---------------------------------|
| O2 | CO2 | NOx | |
| 14.50 | 3.88 | 24.68 | Analyzer Readings not corrected |
| % | % | ppm | for Post-Test Calibrations. |

SYSTEM CALIBRATION BIAS AND DRIFT DATA

| GAS UNITS | ANALYZER VALUE | PRE-TEST CHECK | % SPAN | Pass YES\NO | POST-TEST CHECK | % SPAN | % DRIFT | Pass YES\NO |
|--------------|-------------------|-------------------|-----------|----------------|--------------------|-----------|------------|----------------|
| O2, % | 0.01 | 0.10 | 0.36 | YES | 0.09 | 0.32 | 0.04 | YES |
| O2, % | 22.42 | 22.40 | 0.08 | YES | 22.41 | 0.04 | 0.04 | YES |
| CO2, % | 0.02 | 0.05 | 0.15 | YES | 0.07 | 0.25 | 0.10 | YES |
| CO2, % | 17.85 | 17.86 | 0.05 | YES | 17.87 | 0.10 | 0.05 | YES |
| NOx ppm: | 0.00 | 0.34 | 1.36 | YES | 0.37 | 1.48 | 0.12 | YES |
| NOx ppm: | 22.74 | 22.65 | 0.36 | YES | 22.60 | 0.56 | 0.20 | YES |

UNCORRECTED ANALYZER VALUES

| | |
|----------|------|
| DRY | |
| O2, % | 14.5 |
| CO2, % | 3.9 |
| NOx ppm: | 24.7 |

ANALYZER VALUES CORRECTED FOR DRIFT

| | |
|----------|---------|
| DRY | @15% O2 |
| O2, % | 14.5 |
| CO2, % | 3.8 |
| NOx ppm: | 24.8 |
| | 22.9 |

F- FACTOR (scf/mmBtu) = 8710

Heat Input (mmBtu/Hr) = 441

| | |
|------------------|-------|
| EMISSION RATES | |
| NOx, lbs/mmBtu = | 0.084 |
| NOx, lbs/hr = | 37.04 |

CATALYST AIR MANAGEMENT, Inc.
REFERENCE DATA

CLIENT: UGI
PLANT: Hunlock
UNIT: 4
TEST: 3A,7E,10
LOCATION: Stack

RUN #: 9
OPERATING LEVEL: Normal
START DATE: 6/1/05
END DATE: 6/1/05
START: 16:08
END: 16:29

| DATE | TIME | O2 | CO2 | NOx |
|----------|-------|-------|------|-------|
| 6/1/2005 | 16:08 | 14.57 | 3.85 | 23.89 |
| 6/1/2005 | 16:09 | 14.56 | 3.93 | 23.89 |
| 6/1/2005 | 16:10 | 14.48 | 3.94 | 23.84 |
| 6/1/2005 | 16:11 | 14.45 | 3.94 | 23.77 |
| 6/1/2005 | 16:12 | 14.44 | 3.91 | 23.71 |
| 6/1/2005 | 16:13 | 14.45 | 3.84 | 23.63 |
| 6/1/2005 | 16:14 | 14.53 | 3.83 | 23.64 |
| 6/1/2005 | 16:15 | 14.55 | 3.83 | 23.65 |
| 6/1/2005 | 16:16 | 14.55 | 3.87 | 23.63 |
| 6/1/2005 | 16:17 | 14.28 | 3.94 | 23.59 |
| 6/1/2005 | 16:18 | 14.44 | 3.94 | 23.15 |
| 6/1/2005 | 16:19 | 14.43 | 3.95 | 23.56 |
| 6/1/2005 | 16:20 | 14.44 | 3.89 | 23.69 |
| 6/1/2005 | 16:21 | 14.47 | 3.83 | 23.71 |
| 6/1/2005 | 16:22 | 14.55 | 3.83 | 23.74 |
| 6/1/2005 | 16:23 | 14.56 | 3.83 | 23.84 |
| 6/1/2005 | 16:24 | 14.56 | 3.89 | 23.86 |
| 6/1/2005 | 16:25 | 14.51 | 3.94 | 23.89 |
| 6/1/2005 | 16:26 | 14.45 | 3.94 | 23.97 |
| 6/1/2005 | 16:27 | 14.45 | 3.94 | 24.01 |
| 6/1/2005 | 16:28 | 14.45 | 3.86 | 24.03 |
| 6/1/2005 | 16:29 | 14.5 | 3.83 | 24.03 |

| | | |
|-------|------|-------|
| O2 | CO2 | NOx |
| 14.49 | 3.89 | 23.76 |
| % | % | ppm |

Analyzer Readings not corrected
for Post-Test Calibrations.

SYSTEM CALIBRATION BIAS AND DRIFT DATA

| GAS UNITS | ANALYZER VALUE | PRE-TEST CHECK | % SPAN | Pass YES\NO | POST-TEST CHECK | % SPAN | % DRIFT | Pass YES\NO |
|-----------|----------------|----------------|--------|-------------|-----------------|--------|---------|-------------|
| O2, % | 0.01 | 0.09 | 0.32 | YES | 0.09 | 0.32 | 0.00 | YES |
| O2, % | 22.42 | 22.41 | 0.04 | YES | 22.42 | 0.00 | 0.04 | YES |
| CO2, % | 0.02 | 0.07 | 0.25 | YES | 0.09 | 0.35 | 0.10 | YES |
| CO2, % | 17.85 | 17.87 | 0.10 | YES | 17.90 | 0.25 | 0.15 | YES |
| NOx ppm: | 0.00 | 0.37 | 1.48 | YES | 0.41 | 1.64 | 0.16 | YES |
| NOx ppm: | 22.74 | 22.60 | 0.56 | YES | 22.60 | 0.56 | 0.00 | YES |

UNCORRECTED ANALYZER VALUES

| | |
|----------|------|
| DRY | |
| O2, % | 14.5 |
| CO2, % | 3.9 |
| NOx ppm: | 23.8 |

ANALYZER VALUES CORRECTED FOR DRIFT

| | |
|----------|---------|
| DRY | @15% O2 |
| O2, % | 14.5 |
| CO2, % | 3.8 |
| NOx ppm: | 23.9 |
| | 22.0 |

F- FACTOR (scf/mmBtu) = 8710

Heat Input (mmBtu/Hr) = 442

| | |
|------------------|--------|
| EMISSION RATES | |
| NOx, lbs/mmBtu = | 0.081 |
| NOx, lbs/hr = | 35.802 |

CATALYST AIR MANAGEMENT, Inc.
REFERENCE DATA

| | |
|-----------------|-------------------------|
| CLIENT: UGI | RUN #: 10 |
| PLANT: Hunlock | OPERATING LEVEL: Normal |
| UNIT: 4 | START DATE: 6/1/05 |
| TEST: 3A,7E,10 | END DATE: 6/1/05 |
| LOCATION: Stack | START: 16:37 |
| | END: 16:58 |

| DATE | TIME | O2 | CO2 | NOx |
|----------|-------|-------|------|-------|
| 6/1/2005 | 16:37 | 14.51 | 3.82 | 23.9 |
| 6/1/2005 | 16:38 | 14.55 | 3.82 | 23.79 |
| 6/1/2005 | 16:39 | 14.55 | 3.84 | 23.72 |
| 6/1/2005 | 16:40 | 14.54 | 3.93 | 23.68 |
| 6/1/2005 | 16:41 | 14.46 | 3.94 | 23.74 |
| 6/1/2005 | 16:42 | 14.44 | 3.94 | 23.86 |
| 6/1/2005 | 16:43 | 14.44 | 3.91 | 23.91 |
| 6/1/2005 | 16:44 | 14.46 | 3.84 | 23.9 |
| 6/1/2005 | 16:45 | 14.54 | 3.83 | 23.82 |
| 6/1/2005 | 16:46 | 14.56 | 3.83 | 23.75 |
| 6/1/2005 | 16:47 | 14.56 | 3.87 | 23.72 |
| 6/1/2005 | 16:48 | 14.54 | 3.94 | 23.67 |
| 6/1/2005 | 16:49 | 14.46 | 3.94 | 23.59 |
| 6/1/2005 | 16:50 | 14.45 | 3.95 | 23.56 |
| 6/1/2005 | 16:51 | 14.44 | 3.89 | 23.57 |
| 6/1/2005 | 16:52 | 14.47 | 3.84 | 23.37 |
| 6/1/2005 | 16:53 | 14.55 | 3.83 | 23.35 |
| 6/1/2005 | 16:54 | 14.56 | 3.83 | 23.48 |
| 6/1/2005 | 16:55 | 14.57 | 3.89 | 23.58 |
| 6/1/2005 | 16:56 | 14.53 | 3.94 | 23.59 |
| 6/1/2005 | 16:57 | 14.45 | 3.94 | 23.56 |
| 6/1/2005 | 16:58 | 14.45 | 3.94 | 23.57 |

| | | |
|-------|------|-------|
| O2 | CO2 | NOx |
| 14.50 | 3.89 | 23.67 |
| % | % | ppm |

Analyzer Readings not corrected
for Post-Test Calibrations.

SYSTEM CALIBRATION BIAS AND DRIFT DATA

| GAS UNITS | ANALYZER VALUE | PRE-TEST CHECK | % SPAN | Pass YES\NO | POST-TEST CHECK | % SPAN | % DRIFT | Pass YES\NO |
|-----------|----------------|----------------|--------|-------------|-----------------|--------|---------|-------------|
| O2, % | 0.01 | 0.09 | 0.32 | YES | 0.11 | 0.40 | 0.08 | YES |
| O2, % | 22.42 | 22.42 | 0.00 | YES | 22.49 | 0.28 | 0.28 | YES |
| CO2, % | 0.02 | 0.09 | 0.35 | YES | 0.05 | 0.15 | 0.20 | YES |
| CO2, % | 17.85 | 17.90 | 0.25 | YES | 17.94 | 0.45 | 0.20 | YES |
| NOx ppm: | 0.00 | 0.41 | 1.64 | YES | 0.35 | 1.40 | 0.24 | YES |
| NOx ppm: | 22.74 | 22.60 | 0.56 | YES | 22.54 | 0.80 | 0.24 | YES |

UNCORRECTED ANALYZER VALUES

| | |
|----------|---------|
| DRY | @15% O2 |
| O2, % | 14.5 |
| CO2, % | 3.9 |
| NOx ppm: | 23.7 |

ANALYZER VALUES CORRECTED FOR DRIFT

| | |
|----------|---------|
| DRY | @15% O2 |
| O2, % | 14.5 |
| CO2, % | 3.8 |
| NOx ppm: | 23.9 |
| | 22.0 |

F- FACTOR (scf/mmBtu) = 8710

Heat Input (mmBtu/Hr) = 437

| | |
|------------------|--------|
| EMISSION RATES | |
| NOx, lbs/mmBtu = | 0.081 |
| NOx, lbs/hr = | 35.397 |

APPENDIX 4
REFERENCE METHOD QUALITY ASSURANCE

Calibration Gas Specification Sheets

Certificate of Analysis: EPA Protocol Gas Mixture

Cylinder Number: XC025379B Reference Number: 82-124029159-1
 Cylinder Pressure: 1999.6 PSIG Expiration Date: 2/7/2008
 Certification Date: 2/7/2005 Laboratory: ASG - Riverton - NJ

Airgas Specialty Gases
 600 Union Landing Road
 Riverton, NJ 08077
 (858) 829-7878
 Fax (858) 829-0571
www.airgas.com

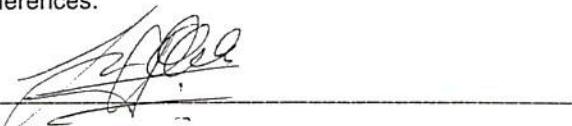
Certified Concentrations

| Component | Concentration | Accuracy | Analytical Principle | Procedure |
|----------------|---------------|----------|----------------------|-----------|
| CARBON DIOXIDE | 9.997 % | +/- 1% | NDIR | G1 |
| OXYGEN | 11.92 % | +/- 1% | Paramagnetic | G1 |
| NITROGEN | Balance | | | |

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed.
 Analytical Methodology does not require correction for analytical interferences.

Notes:

Do not use cylinder below 150 psig.

Approval Signature 

Reference Standard Information

| Type | Balance Gas | Component | Cyl.Number | Concentration |
|------------|-------------|----------------|------------|---------------|
| NTRM 82658 | NITROGEN | OXYGEN | CC14306 | 9.72 % |
| NTRM 81674 | NITROGEN | CARBON DIOXIDE | XC018737B | 6.89 % |

Analytical Results**1st Component**

| CARBON DIOXIDE | | |
|--------------------|------------|--------------|
| 1st Analysis Date: | 02/07/2005 | |
| R 1.388 | S 2.020 | Z -0.002 |
| S 2.018 | Z 0.002 | R 1.391 |
| Z 0.001 | R 2.023 | S 2.019 |
| | | Conc 10.01 % |
| | | Conc 9.980 % |
| | | Conc 10.00 % |
| | | AVG: 9.997 % |

2nd Component

| OXYGEN | | |
|--------------------|--------------|--------------|
| 1st Analysis Date: | 02/07/2005 | |
| R 1.113 | S 1.371 | Z -0.003 |
| S 1.370 | Z -0.002 | R 1.114 |
| Z -0.001 | R 1.114 | S 1.369 |
| | Conc 11.93 % | Conc 11.91 % |
| | Conc 11.91 % | Conc 11.91 % |
| | AVG: 11.92 % | |

Certificate of Analysis: EPA Protocol Gas Mixture

Cylinder Number: CC114798 Reference Number: 82-124031333-1
 Cylinder Pressure: 1999.6 PSIG Expiration Date: 3/18/2008
 Certification Date: 3/18/2005 Laboratory: ASG - Riverton - NJ

Airgas Specialty Gases
 600 Union Landing Road
 Riverton, NJ 08077
 (856) 829-7878
 Fax (856) 829-0571
www.airgas.com

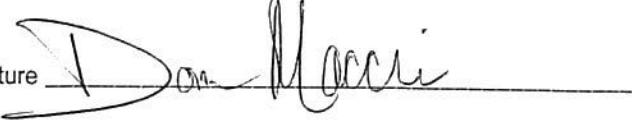
Certified Concentrations

| Component | Concentration | Accuracy | Analytical Principle | Procedure |
|----------------|---------------|----------|----------------------|-----------|
| CARBON DIOXIDE | 17.83 % | +/- 1% | NDIR | G1 |
| OXYGEN | 22.43 % | +/- 1% | Paramagnetic | G1 |
| NITROGEN | Balance | | | |

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed.
 Analytical Methodology does not require correction for analytical interferences.

Notes:

Do not use cylinder below 150 psig.

Approval Signature 

Reference Standard Information

| Type | Balance Gas | Component | Cyl.Number | Concentration |
|-------------|-------------|----------------|------------|---------------|
| NTRM 82745x | NITROGEN | CARBON DIOXIDE | XC034425B | 19.84 % |
| NTRM 82659x | NITROGEN | OXYGEN | XC024390B | 22.6 % |

Analytical Results

| 1st Component CARBON DIOXIDE | | | | 2nd Component OXYGEN | | | |
|-------------------------------|---------|----------|--------------|-------------------------------|---------|---------|--------------|
| 1st Analysis Date: 03/18/2005 | | | | 1st Analysis Date: 03/18/2005 | | | |
| R 3.983 | S 3.578 | Z -0.002 | Conc 17.84 % | R 2.509 | S 2.491 | Z 0.002 | Conc 22.50 % |
| S 3.580 | Z 0.004 | R 3.986 | Conc 17.83 % | S 2.489 | Z 0.003 | R 2.507 | Conc 22.40 % |
| Z 0.003 | R 3.988 | S 3.580 | Conc 17.82 % | Z 0.003 | R 2.505 | S 2.486 | Conc 22.40 % |
| AVG: 17.83 % | | | | AVG: 22.43 % | | | |



Assay Laboratory
BOC GASES
600 Union Landing Road
Riverton, NJ 08077
(856) 829 7878

CERTIFICATE OF ANALYSIS EPA Protocol Gas

CUSTOMER
Knoxville Gas&Gear
2300 SYCAMORE DR
KNOXVILLE, TN 379211773

CYLINDER NO : XC023610B
EXPIRATION DATE : 24-May-2006
CERTIFICATION DATE : 01-Jun-2004
CYLINDER PRESSURE : 2000 psig
PRODUCT ID NO : 24016764
LOT NUMBER : 608869

CUSTOMER PO NO:

Previous Certification Date(s):

ANALYTICAL INFORMATION

This calibration standard has been certified per the 1997 EPA Traceability Protocol, Document EPA-600/97/121, Using Procedure G1. All Values certified to be +/-1% NIST Traceable.

Do Not Use This Cylinder below 150 psig. i.e. 1.0 Megapascal

Analytical Results

| Components | Requested Mixture | Certified Concentration | Analytical Uncertainty | Assay Dates |
|--------------------------|-------------------|-------------------------|-------------------------|---------------------|
| NITRIC OXIDE | 13.75 ppm | 13.69 ppm | +/-2.00% NIST Traceable | 05/25/04 & 06/01/04 |
| TOTAL OXIDES OF NITROGEN | | 13.73 ppm | +/-2.00% NIST Traceable | |
| NITROGEN | BALANCE GAS | | | |

CALIBRATION STANDARDS USED IN ASSAY

| Type | LOT ID | Cylinder No | Concentration | Expiration |
|------------|----------|-------------|--------------------------|------------|
| NTRM 82629 | 04060209 | XC019156B | 20.13 +/- 0.26 ppm NO/N2 | 05/01/08 |

ANALYTICAL INSTRUMENTS USED IN ASSAY

| Instrument/Make/Model | Analytical Principle | Last Multipoint Calibration |
|---------------------------------------|----------------------|-----------------------------|
| California Analytical 400-CLD 6N05003 | Chemiluminescence | 05/20/04 |





Assay Laboratory
BOC GASES
600 Union Landing Road
Riverton, NJ 08077
(856) 829 7878

CERTIFICATE OF ANALYSIS
EPA Protocol Gas

CUSTOMER

Reading Gas&Gear
732 Tulpehocken Street
READING, PA 19601

CUSTOMER PO NO:

Previous Certification Date(s):

CYLINDER NO : XC022685B
EXPIRATION DATE : 22-Sep-2005
CERTIFICATION DATE : 01-Oct-2003
CYLINDER PRESSURE : 2000 psig
PRODUCT ID NO : 24005083
LOT NUMBER : 577638

ANALYTICAL INFORMATION

This calibration standard has been certified per the 1997 EPA Traceability Protocol, Document EPA-600/97/121, Using Procedure G1. All Values certified to be +/-1% NIST Traceable.

Do Not Use This Cylinder below 150 psig. i.e. 1.0 Megapascal

| Components | Analytical Results | | | Assay Dates |
|--------------------------|--------------------|-------------------------|-------------------------|---------------------|
| | Requested Mixture | Certified Concentration | Analytical Uncertainty | |
| NITRIC OXIDE | 22.50 ppm | 22.72 ppm | +/-2.00% NIST Traceable | 09/23/03 & 09/30/03 |
| TOTAL OXIDES OF NITROGEN | | 22.74 ppm | +/-2.00% NIST Traceable | 09/23/03 |
| BALANCE GAS | | | | |

CALIBRATION STANDARDS USED IN ASSAY

| Type | LOT ID | Cylinder No | Concentration | Expiration |
|------------|-----------|-------------|---------------------------------|------------|
| GMIS 2629A | 571772-01 | XC019158B | 20.23 +/- 0.20 ppm NITRIC OXIDE | 07/11/05 |

ANALYTICAL INSTRUMENTS USED IN ASSAY

| Instrument/Make/Model | Analytical Principle | Last Multipoint Calibration |
|---------------------------------------|----------------------|-----------------------------|
| California Analytical 400-CLD 6N05003 | Chemiluminescence | 09/10/03 |

NOx Converter Test

CATALYST AIR MANAGEMENT, INC.
AIR QUALITY TESTING SERVICES

ANALYZER: TECO 10S
 SERIAL #: 10S-25567-221
 TIME: 14:24
 DATE: 6/6/2005
 TEST: NOx CONVERTER EFFICIENCY

| DATE | TIME | NOx ppm |
|----------|-------|---------|
| 6/6/2005 | 14:24 | 145.37 |
| 6/6/2005 | 14:25 | 144.99 |
| 6/6/2005 | 14:26 | 144.74 |
| 6/6/2005 | 14:27 | 144.64 |
| 6/6/2005 | 14:28 | 144.61 |
| 6/6/2005 | 14:29 | 144.78 |
| 6/6/2005 | 14:30 | 144.7 |
| 6/6/2005 | 14:31 | 144.61 |
| 6/6/2005 | 14:32 | 144.42 |
| 6/6/2005 | 14:33 | 143.96 |
| 6/6/2005 | 14:34 | 143.8 |
| 6/6/2005 | 14:35 | 143.64 |
| 6/6/2005 | 14:36 | 143.74 |
| 6/6/2005 | 14:37 | 143.81 |
| 6/6/2005 | 14:38 | 143.64 |
| 6/6/2005 | 14:39 | 147.24 |
| 6/6/2005 | 14:40 | 146.28 |
| 6/6/2005 | 14:41 | 146.36 |
| 6/6/2005 | 14:42 | 145.06 |
| 6/6/2005 | 14:43 | 145.24 |
| 6/6/2005 | 14:44 | 145.28 |
| 6/6/2005 | 14:45 | 144.68 |
| 6/6/2005 | 14:46 | 144.53 |
| 6/6/2005 | 14:47 | 144.15 |
| 6/6/2005 | 14:48 | 143.82 |
| 6/6/2005 | 14:49 | 143.47 |
| 6/6/2005 | 14:50 | 143.04 |
| 6/6/2005 | 14:51 | 142.98 |
| 6/6/2005 | 14:52 | 142.88 |
| 6/6/2005 | 14:53 | 145.72 |
| 6/6/2005 | 14:54 | 144.79 |
| | | Avg |
| | | 144.55 |
| | | ppm |

Highest Concentration: 147.24
 Ending Concentration: 144.79
 Drift: 1.66%

CALIBRATION GASES

| | |
|------|-------|
| NOx: | 221.8 |
| O2: | 22.43 |

ANALYZER SCALE : 250 ppm

CATALYST AIR MANAGEMENT, INC.
AIR QUALITY TESTING SERVICES

ANALYZER: TECO 10S
 SERIAL #: 10S-25567-221
 TIME: 12:52
 DATE: 4/15/2005
 TEST: NOx CONVERTER EFFICIENCY

| DATE | TIME | NOx ppm |
|-----------|-------|---------|
| 4/15/2005 | 12:52 | 110.88 |
| 4/15/2005 | 12:53 | 110.88 |
| 4/15/2005 | 12:54 | 110.84 |
| 4/15/2005 | 12:55 | 110.86 |
| 4/15/2005 | 12:56 | 110.78 |
| 4/15/2005 | 12:57 | 110.78 |
| 4/15/2005 | 12:58 | 110.67 |
| 4/15/2005 | 12:59 | 110.53 |
| 4/15/2005 | 13:00 | 110.45 |
| 4/15/2005 | 13:01 | 110.47 |
| 4/15/2005 | 13:02 | 110.35 |
| 4/15/2005 | 13:03 | 110.31 |
| 4/15/2005 | 13:04 | 110.3 |
| 4/15/2005 | 13:05 | 108.29 |
| 4/15/2005 | 13:06 | 110.06 |
| 4/15/2005 | 13:07 | 109.99 |
| 4/15/2005 | 13:08 | 110.03 |
| 4/15/2005 | 13:09 | 109.84 |
| 4/15/2005 | 13:10 | 109.81 |
| 4/15/2005 | 13:11 | 109.77 |
| 4/15/2005 | 13:12 | 109.62 |
| 4/15/2005 | 13:13 | 109.55 |
| 4/15/2005 | 13:14 | 109.46 |
| 4/15/2005 | 13:15 | 109.49 |
| 4/15/2005 | 13:16 | 109.3 |
| 4/15/2005 | 13:17 | 109.21 |
| 4/15/2005 | 13:18 | 109.24 |
| 4/15/2005 | 13:19 | 109.03 |
| 4/15/2005 | 13:20 | 109.08 |
| 4/15/2005 | 13:21 | 109.12 |
| 4/15/2005 | 13:22 | 109.19 |
| | | Avg |
| | | 109.94 |
| | | ppm |

Highest Concentration: 110.88
 Ending Concentration: 109.19
 Drift: 1.52%

CALIBRATION GASES

| | |
|------|-------|
| NOx: | 89.1 |
| O2: | 22.63 |

ANALYZER SCALE : 100 ppm

APPENDIX 5
SAMPLE CALCULATIONS

CALCULATIONS FOR GAS CONCENTRATION

GAS CONCENTRATION (C_{gas})

$$C_{\text{gas}} = (\bar{C} - C_0) \left(\frac{C_{\text{ma}}}{C_m - C_o} \right)$$

C_{gas} = Effluent gas concentration, ppm

\bar{C} = Average gas concentration indicated by gas analyzer, dry basis, ppm

C_0 = Average of initial and final system calibration bias check responses for the zero gas, ppm

C_m = Average of initial and final system calibration bias check responses for the upscale calibration gas, ppm

C_{ma} = Actual concentration of the upscale calibration gas, ppm

CALCULATION FOR EMISSION RATE

1. EMISSION RATE $E(\text{lb}/\text{mmbtu})$,
$$E(\text{lb}/\text{mmbtu}) = C \times F_d \left(\frac{20.9}{20.9 - \%O_2} \right)$$

$$E(\text{lb}/\text{mmbtu}) = C \times F_c (100/\text{CO}_2)$$

Where:

$C(\text{lb}/\text{dscf})$ = Pollutant concentration (ppm) x conversion factor.

Conversion Factors:

$$\text{NOx} = 1.194 \times 10^{-7}$$

$$\text{SO}_2 = 1.660 \times 10^{-7}$$

$$\text{CO} = 7.274 \times 10^{-8}$$

$$\text{C}_3\text{H}_8 = 1.145 \times 10^{-7}$$

$$\text{CH}_4 = 4.152 \times 10^{-8}$$

$F_d(\text{dscf}/\text{mmbtu})$ = "F" Factor for fuel type, (Ref. EPA Method 19)

$$F_d(\text{Coal}) = 9780$$

$$F_c(\text{Coal}) = 1800$$

$$F_d(\text{Gas}) = 8710$$

$$F_c(\text{Gas}) = 1040$$

$$F_d(\text{Oil}) = 9190$$

$$F_c(\text{Oil}) = 1420$$

2. Heat input $HI(\text{mmBtu/hr})$
$$HI = \text{fuel flow (cf/min)} * \text{Heat Value (mmBtu/cf)} * 60$$

$$HI = \text{fuel flow (gal/min)} * \text{Heat Value (mmBtu/gal)} * 60$$

3. Emission Rate $E(\text{lb/hr})$
$$E(\text{lb/hr}) = HI(\text{mmBtu/hr}) * E(\text{lb/mmBtu})$$

$$C_{NO_x} = (24.06 - 0.14)(22.74 / (22.70 - 0.14)) = 24.1$$

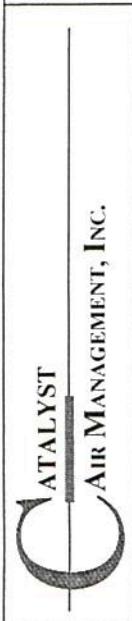
$$C_{O_2} = (14.49 - 0.075)(17.83 / (17.855 - 0.075)) = 14.4$$

$$C_{NO_x \text{ at } 15\% O_2} = (24.1)(5.9 / (20.9 - 14.4)) = 21.38$$

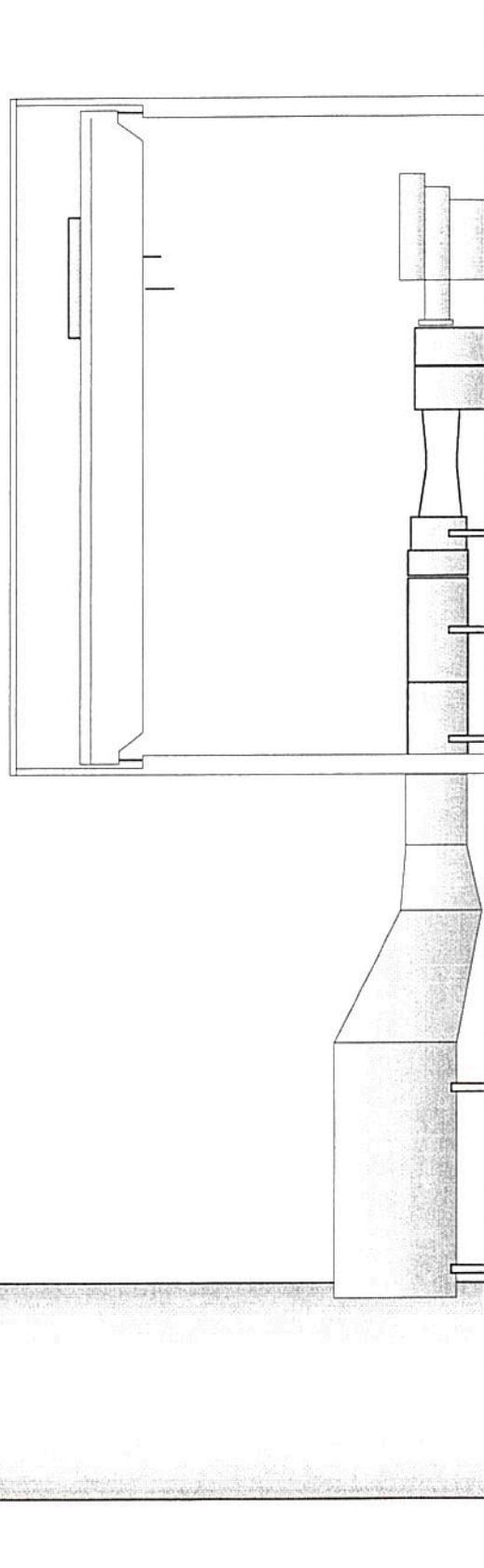
$$E_{NO_x \text{ lb/mm Btu}} = (24.1)(8710)(1.194 \times 10^{-7}) (20.9 / (20.9 - 14.4)) = 0.081$$

$$E_{NO \text{ lb/ha}} = (0.081)(441) = 35.7$$

APPENDIX 6
FIGURES



Sample Platform



GENERAL ARRANGEMENT

| | | |
|-------------|---------------------------------------|---------|
| TITLE | UGI UTILITIES, INC. - HUNLOCK STATION | |
| DESCRIPTION | CT GENERAL ARRANGEMENT | |
| SCALE | None | |
| DRAWN BY | MT TAYLOR | REVISED |
| DATE | 8/30/00 | |

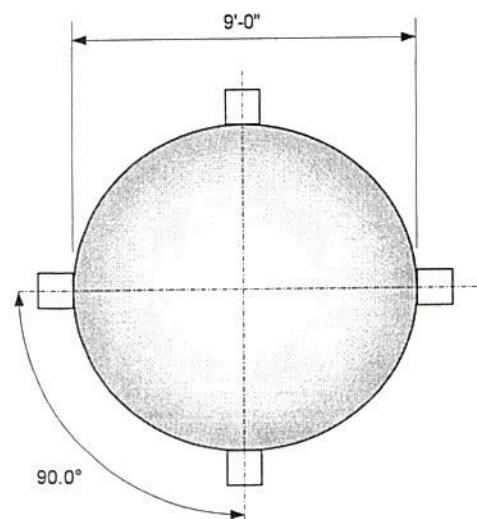


Traverse Location

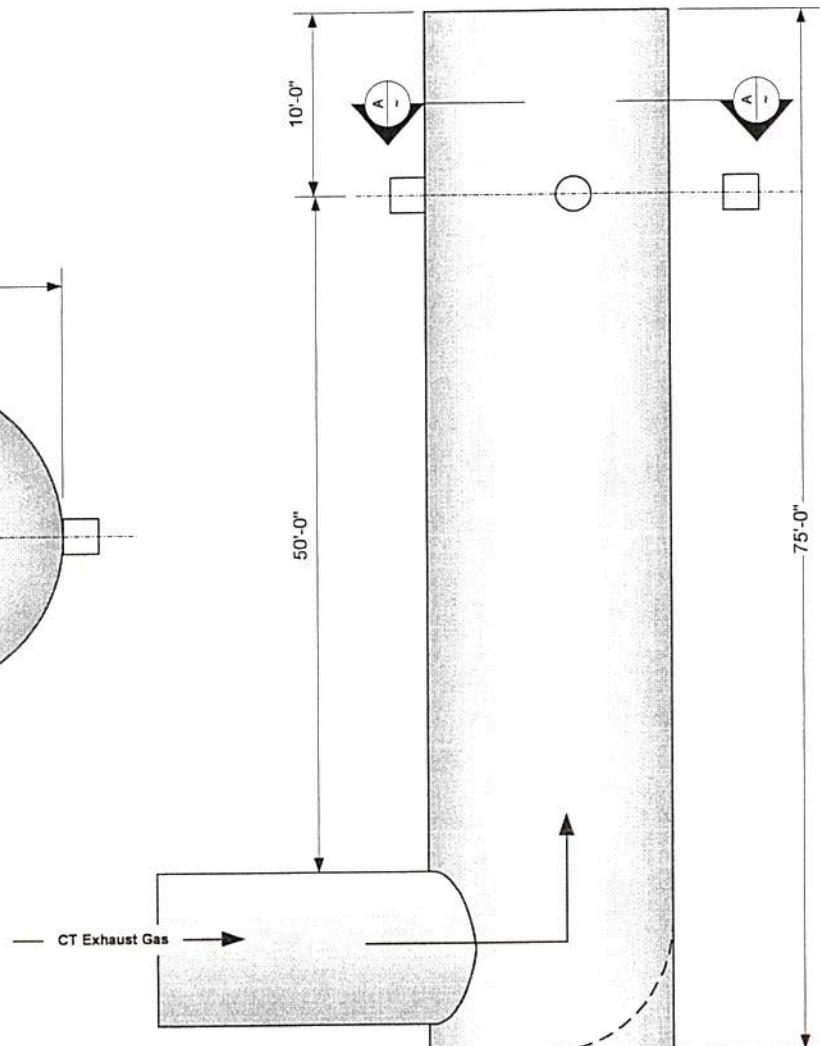
(Meters) From inside of stack

Typical 4 Ports

1. 0.4
2. 1.2
3. 2.0



Section A-A
Scale: NONE



| TITLE | | |
|---------------------------------------|-----------|---------|
| UGI UTILITIES, INC. - HUNLOCK STATION | | |
| DESCRIPTION | | DATE |
| CT STACK TEST LOCATIONS | | 8/30/01 |
| SCALE | DRAWN BY | REVISED |
| NONE | MJ TAYLOR | |

